NAS-E35HD/SS-CE35HD

SERVICE MANUAL

Ver. 1.0 2008.05

AEP Model
UK Model
E Model
Australian Model

- SS-CE35HD is the speaker system of NAS-E35HD.

CD Section	Model Name Using Similar Drive	NEW
	Optical Pick-up Block Name	KSM215DHAP
HD Section	Model Name Using Similar Drive	NEW
	Hard Disc Drive Name	HDD/SG-NIGHTHAWK-S (80GB)

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SPECIFICATIONS

Amplifier section

European model:

DIN power output (rated):
24 + 24 W (8 Ω at 1 kHz, DIN)

Continuous RMS power output (reference):
30 + 30 W (8 Ω at 1 kHz, 10 % THD)

Music Power output (reference):
30 + 30 W (8 Ω at 1 kHz, 10 % THD)

Other models:

DIN power output (rated):
24 + 24 W (8 Ω at 1 kHz, DIN)

Continuous RMS power output (reference):
30 + 30 W (8 Ω at 1 kHz, 10 % THD)

HDD Jukebox section

Capacity:
80 GB*
* A portion of the memory is used for system management functions. Actual available memory is approx. 72 GB.

Recording system:
MP3

Maximum recording time (measured with MP3 128 kbps):
About 1,300 h

Maximum number of tracks:
20,000

Maximum number of albums:
2,000

CD player section

System:
Compact disc and digital audio system

Laser Diode Properties:
Emission duration: continuous
Laser Output*: Less than 44.6 µw
* This output is the value measurement at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.

Frequency response:
20 Hz - 20 kHz

USB section

Supported bit rate
MP3 (MPEG-1 Audio Layer3):
32 - 320 kbps, VBR
WMA:
48 - 192 kbps, VBR
AAC:
48 - 320 kbps

Sampling frequencies
MP3 (MPEG-1 Audio Layer3):
32/44.1/48 kHz
WMA:
44.1 kHz
AAC:
44.1 kHz

– Continued on next page –

NAS-E35HD
HDD AUDIO SYSTEM
SS-CE35HD
SPEAKER SYSTEM

9-889-128-01
2008E05-1

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Sony Corporation
Audio Business Group
Published by Sony Techno Create Corporation

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FM tuner section

Tuner:
FM stereo, FM superheterodyne tuner

Circuit system:
PLL digital frequency synthesizer quarts lock system

Frequency range:
87.5 - 108.0 MHz (50kHz step)

Antenna:
FM lead antenna

Antenna terminals:
75 Ω unbalanced

Intermediate frequency:
10.7 MHz

AM tuner section

Tuner:
AM superheterodyne tuner

Circuit system:
PLL digital frequency synthesizer quarts lock system

Frequency range:

European model:
531 - 1,602 kHz (with the interval set at 9 kHz)

Latin American model:
530 - 1,710 kHz (with the interval set at 10 kHz)
531 - 1,710 kHz (with the interval set at 9 kHz)

Oceanian model
531 - 1,710 kHz (with the interval set at 9 kHz)
530 - 1,710 kHz (with the interval set at 10 kHz)

Other models:
531 - 1,602 kHz (with the interval set at 9 kHz)
530 - 1,610 kHz (with the interval set at 10 kHz)

Antenna:
AM loop antenna

Antenna terminals:
External antenna terminal

Intermediate frequency:
450 kHz

DAB tuner section (UK model only)

Tuner:
DAB stereo tuner

Antenna:
DAB lead antenna

Frequency range:
Band-III: 174.928 (5A) – 239.200 (13F) MHz

DAB frequency table (Band-III):

Frequency	Label
174.928 MHz	5A
176.640 MHz	5B
178.352 MHz	5C
180.064 MHz	5D
181.936 MHz	6A
183.648 MHz	6B
185.360 MHz	6C
187.072 MHz	6D
188.928 MHz	7A
190.640 MHz	7B
192.352 MHz	7C
194.064 MHz	7D
195.936 MHz	8A
197.648 MHz	8B
199.360 MHz	8C
201.072 MHz	8D
202.928 MHz	9A
204.640 MHz	9B
206.352 MHz	9C
208.064 MHz	9D
209.936 MHz	10A
211.648 MHz	10B
213.360 MHz	10C
215.072 MHz	10D
216.928 MHz	11A
218.640 MHz	11B
220.352 MHz	11C
222.064 MHz	11D
223.936 MHz	12A
225.648 MHz	12B
227.360 MHz	12C
229.072 MHz	12D
230.784 MHz	13A
232.496 MHz	13B
234.208 MHz	13C
235.776 MHz	13D
237.488 MHz	13E
239.200 MHz	13F

Inputs/Outputs

AUDIO IN (stereo mini jack):
Voltage 0.8 V, impedance 22 k

Ψ (USB) port:
USB type A, Full speed USB

DMPORT:
For connecting a DIGITAL MEDIA PORT adapter

(headphones) jack (stereo mini jack):
Accepts headphones of 8 Ω or more

Asian model:

AUDIO OUT (phono jacks):
Voltage 0.5 V, impedance 1 k

Speaker (SS-CE35HD)

Latin American model:

Speaker system:
2-way, bass-reflex type

Speaker units:
Woofer: 120 mm, cone type
Tweeter: 25 mm, soft dome type

Nominal impedance:
8 Ω

Dimensions (w/h/d)
Approx. 140 × 284 × 240 mm

Mass
Approx. 2.7 kg net per speaker

Other models:

Speaker system:
2-way, bass-reflex type

Speaker units:
Woofer: 120 mm, cone type
Tweeter: 40 mm, cone type

Nominal impedance:
8 Ω

Dimensions (w/h/d)
Approx. 140 × 250 × 210 mm

Mass
Approx. 2.0 kg net per speaker

General

Power requirements:

Mexican model:
120 V AC, 60 Hz

Latin American model (except for the Mexican and Argentine models):
110 - 120 or 220 - 240 V AC, 50/60 Hz (adjustable with voltage selector)

Other models:
220 - 240 V AC, 50/60 Hz

Power consumption:
45 W

Dimensions (w/h/d):

UK model:
Approx. 285 × 130 × 319 mm incl. projecting parts and controls

Other models:
Approx. 285 × 130 × 312 mm incl. projecting parts and controls

Mass:
Approx. 4.0 kg

Operating temperature:
+5 °C (+41 °F) to +35 °C (+95 °–F)

Operating humidity:
25 % to 80 %

Supplied accessories:
AM loop antenna (1)
FM lead antenna (1)
DAB lead antenna (1)
(for the UK model only)
Speaker cords (2)
Speaker pads (8)
(for the Latin American model only)
Remote control (1)
R6 (size AA) batteries (2)
DIGITAL MEDIA PORT adapter (TDM-iP10 (M)) (1)
(for the European model only)
iPod Dock Adapters (1 set)
(for the European model only)
Operating Instructions

Design and specifications are subject to change without notice.

NOTES ON CHIP COMPONENT REPLACEMENT

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

FLEXIBLE CIRCUIT BOARD REPAIRING

- Keep the temperature of soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

This appliance is classified as a CLASS 1 LASER product. This marking is located on the rear or bottom exterior.

SAFETY-RELATED COMPONET WARNING!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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Accessories are given in the last of the electrical parts list.

SECTION 1
SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pickup block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(**Caution:** Some printed circuit boards may not come printed with the lead free mark due to their particular size)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350 °C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

RELEASING THE DISC TRAY LOCK

The disc tray lock function for the antitheft of an demonstration disc in the store is equipped.

Releasing Procedure:

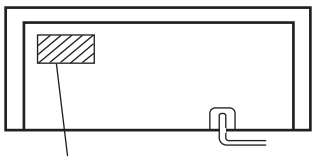
1. Press [I/⏻] button to turn the power on.
2. Press the [FUNCTION] button to select CD function.
3. While pressing the [■] button, press the [⏏] button for more 5 seconds).
4. The message "UNLOCKED" is displayed and the disc tray is unlocked.

Note: When "LOCKED" is displayed, the slot lock is not released by turning power on/off with the [I/⏻] button.

NOTE THE IC1, IC5 AND IC13 ON THE USB MICOM BOARD REPLACING

IC1, IC5 and IC13 on the USB MICOM board cannot exchange with single. When IC1, IC5 and IC13 on the USB MICOM board are damaged, exchange the entire mounted board.

MODEL IDENTIFICATION
– Rear View –

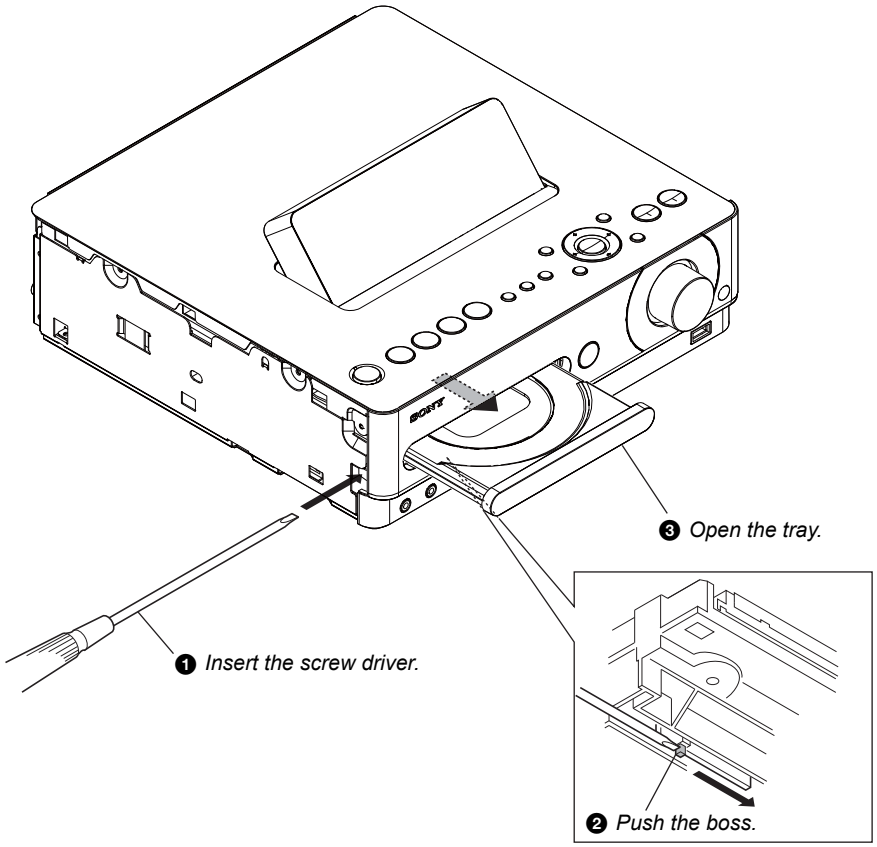


POWER VOLTAGE INDICATION

Model	Power Voltage Indication
Mexican model	120V - 60Hz 45W
Chilean and Peruvian models	110-120/220-240V - 50/60Hz 45W
AEP, Russian, UK, Argentina and Australian models	220-240V - 50/60Hz 45W

HOW TO OPEN THE TRAY WHEN POWER SWITCH TURN OFF

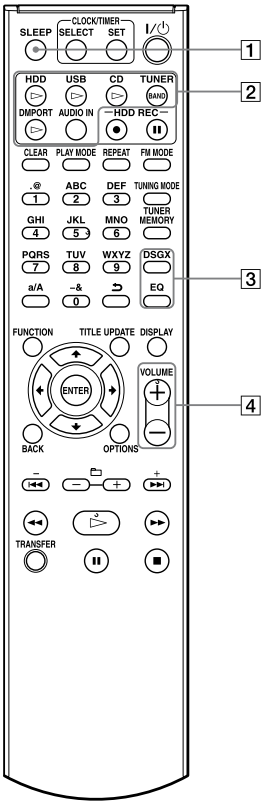
Note: Please insert a screwdriver after removing the panel (side L).
About disassembly of the panel (side L), please refer to "3-2. Panel (Side L/R)" (page 13).



SECTION 2
GENERAL

This section is extracted from instruction manual.

Remote control



An asterisk (*) indicates buttons that have a tactile dot (the VOLUME + button).

1 SLEEP button

Use to make or confirm the sleep timer setting.

2 Playback buttons

Use to select the function directly and start playback at the same time.

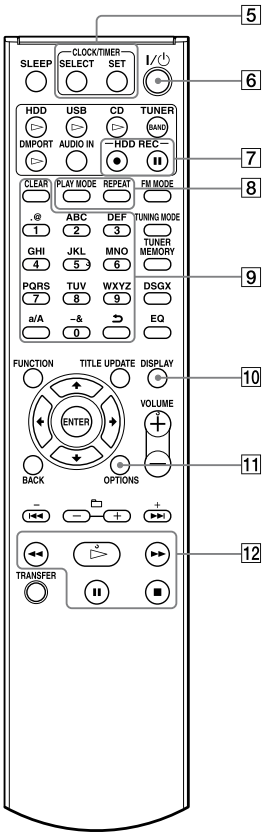
- HDD▷ button
- USB▷ button
- CD▷ button
- TUNER/BAND button
- DMPORT▷ button
- AUDIO IN button

3 DSGX and EQ buttons

- DSGX button
  Use to generate a more dynamic sound (Dynamic Sound Generator X-tra). Each press of the button switches the DSGX function "ON" or "OFF". This function is factory set to "ON".
- EQ (equalizer) button
  Use to adjust the bass and treble. Press this button to display "BASS", and then press I◀◀ or ▶▶I to adjust the bass. After adjusting the bass sound, press this button again to display "TREBLE", and then press I◀◀ or ▶▶I to adjust the treble.

4 VOLUME+* and VOLUME– buttons

Use to adjust the volume.



An asterisk (*) indicates buttons that have a tactile dot (the number "5" button and ▷ (play) button of the operation buttons).

5 CLOCK/TIMER buttons

Use to set the clock or timer.

- SELECT button
  Use to confirm or cancel the timer setting.
- SET button
  Use to display the clock or timer menu.

6 I/⏻ (power) button

Turns the power on or off.

7 HDD REC buttons

Use for recording to the HDD Jukebox.

- HDD REC ● (start recording) button
- HDD REC ❚❚ (pause recording) button

8 PLAY MODE and REPEAT buttons

- PLAY MODE button
  Use to select a play mode.
- REPEAT button
  Use to select a repeat mode.

9 Numeric*/text buttons

Use to select a track during play or to enter text.
Use to select a preset FM or AM station or a DAB service.

10 DISPLAY button

Use to display information such as time information, clock, demonstration, etc.

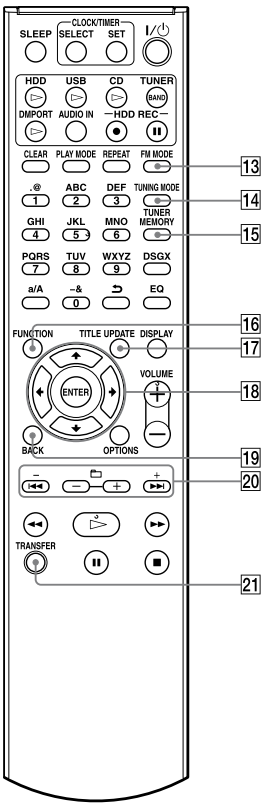
11 OPTIONS button

Displays the Option menu.
Menu items will vary according to the selected function.

12 Operation buttons

Use in all functions to perform basic operations.

- ▷ (play) button*
- ◀◀ (fast rewind) and ▶▶ (fast forward) buttons
- ❚❚ (pause) button
- ■ (stop) button



13 FM MODE button

Use to select stereo or monaural while listening to an FM broadcast.

14 TUNING MODE button

Use to select the tuning mode.

15 TUNER MEMORY button

Use to preset a radio station or DAB service (UK model only).

16 FUNCTION button

Use to select a function.

17 TITLE UPDATE button

Use to display the Title Update menu.

18 Menu operation buttons

Use to select menu items and enter menu settings.

- ↑, ↓, ← and → buttons
  Use to select a menu item or to change a setting.
- ENTER button
  Use to enter a setting.

19 BACK button

Use to go back to the previous display.

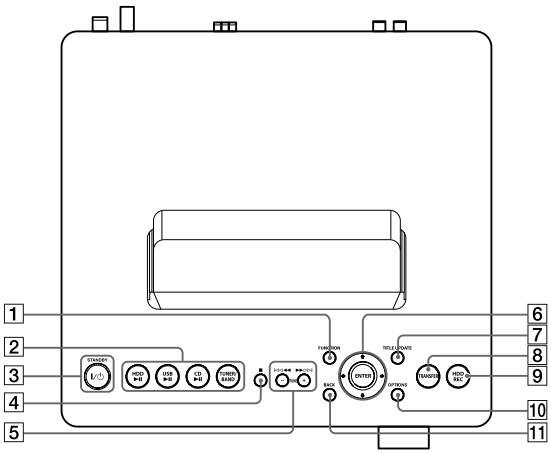
20 + • –, I◀◀ • ▶▶I and 🗀+ • 🗀– buttons

- + and – buttons
  Use to adjust the tuning frequency.
- I◀◀ and ▶▶I buttons
  Cues the beginning of a track.
- 🗀 + and 🗀 – buttons
  Use to select an album or a folder.

21 TRANSFER button

Use to transfer tracks to a USB device.

Top of the main unit



1 **FUNCTION button**
Use to select a function.

2 **Playback buttons**
Use to select the function directly and start playback at the same time.
- HDD▶II button
- USB▶II button
- CD▶II button
- TUNER/BAND button

3 **I/⏻ (power) button and STANDBY indicator**
- **I/⏻** (power) button
  Turns the power on or off.
- STANDBY indicator
  Lights up when the unit is turned off.

4 **■ (stop) button**
Use in each function to stop an operation.

5 **I◀◀ • ▶▶I, ◀◀ • ▶▶, and TUNE+ • TUNE– buttons**
- **I◀◀** and **▶▶I** buttons
  Cues the beginning of a track.
- **◀◀** and **▶▶** buttons
  Fast rewind and fast forward the playback.
- TUNE + and TUNE – buttons
  Use to adjust the tuning frequency.

6 **Menu operation buttons**
Use to select menu items and enter menu settings.
- **↑**, **↓**, **←** and **→** buttons
  Use to select a menu item or to change a setting.
- ENTER button
  Use to enter a setting.

7 **TITLE UPDATE button**
Use to display the Title Update menu.

For the UK model

TITLE UPDATE/DAB AUTO SCAN button
- DAB AUTO SCAN button
  Use to scan DAB services automatically while the unit is in the DAB function.

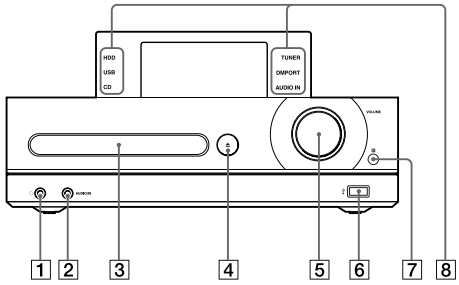
8 **TRANSFER button**
Use to transfer tracks to a USB device.

9 **HDD REC button**
Use for recording to the HDD Jukebox.

10 **OPTIONS button**
Displays the Option menu.
Menu items will vary according to the selected function.

11 **BACK button**
Use to go back to the previous display.

Front of the main unit



1 **🎧 (headphones) jack**
Use to connect headphones.

2 **AUDIO IN jack**
Use to connect the audio output jack of an external component.

3 **Disc tray**
Use to load a CD.

4 **CD⏏ button**
Opens and closes the disc tray.

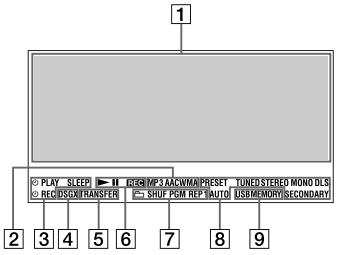
5 **VOLUME dial**
Use to adjust the volume.

6 **Ψ (USB) port**
Use to connect a USB device.

7 **Remote sensor**

8 **Function indicators**
Lights up to indicate the selected function.

Display



1 **Text information**
Displays text information, such as a track name, album name, etc.

2 **Audio format indicators**
Lights up to indicate the audio format.

3 **Timer indicators**
Lights up when the Play Timer, Recording Timer, or Sleep Timer is set.

4 **DSGX indicator**
Lights up when the DSGX function is set to "ON".

TRANSFER indicator
Lights up while audio data is being transferred.

6 **Operation status indicators**
Lights up to indicate the current operation status (playing, recording, or paused).

7 **Play mode indicators**
Lights up to indicate the current play mode.

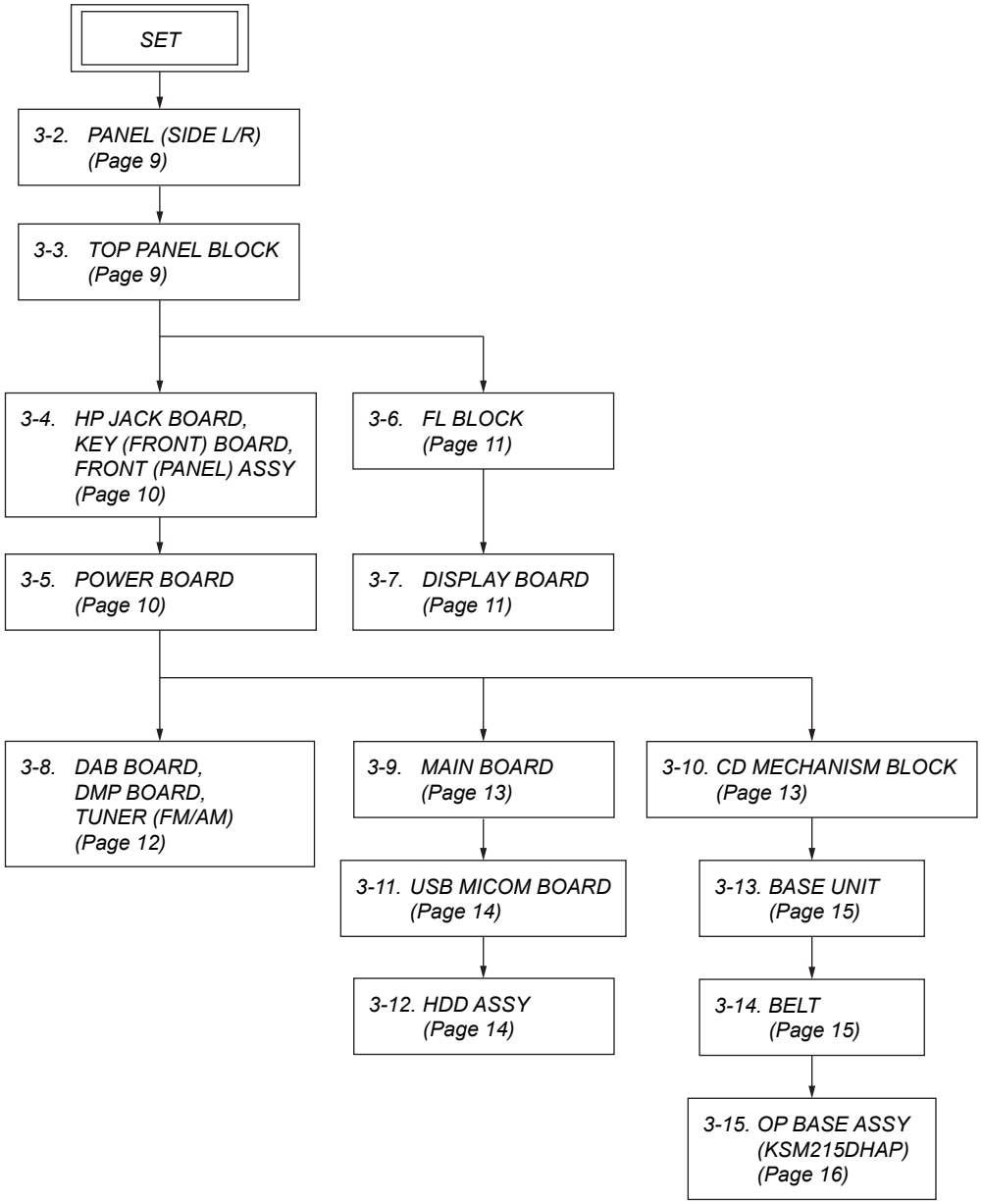
8 **Tuner reception indicators**
Lights up when the respective radio function is active.

9 **USB MEMORY indicator**
Lights up when a USB device is connected.

SECTION 3
DISASSEMBLY

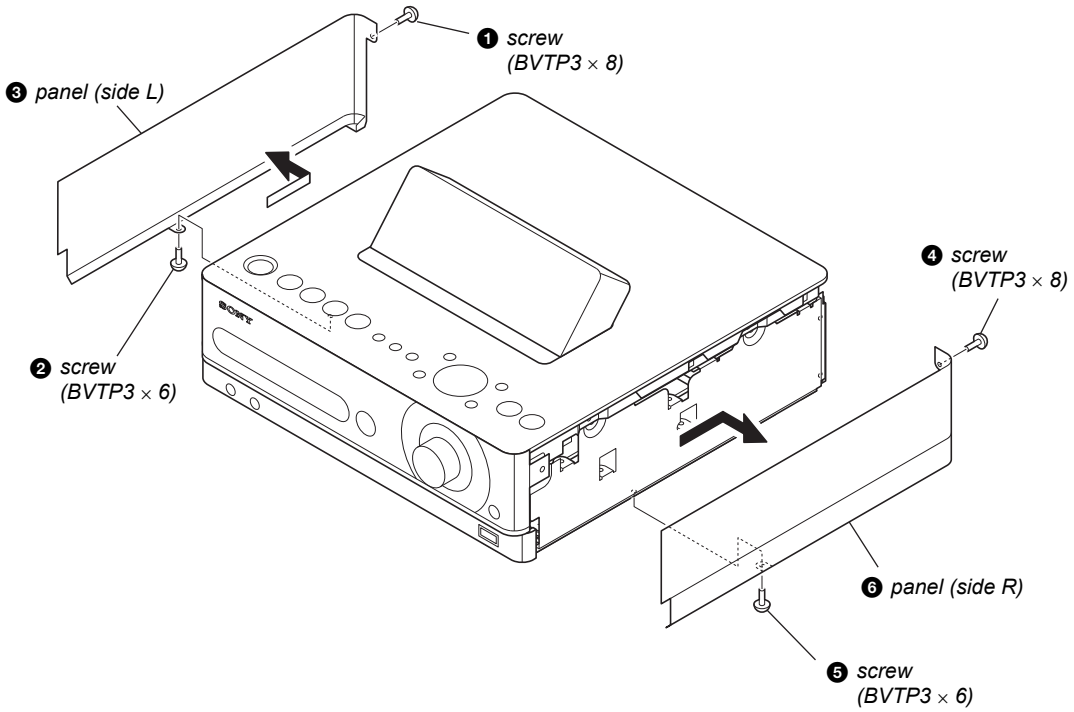
- This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

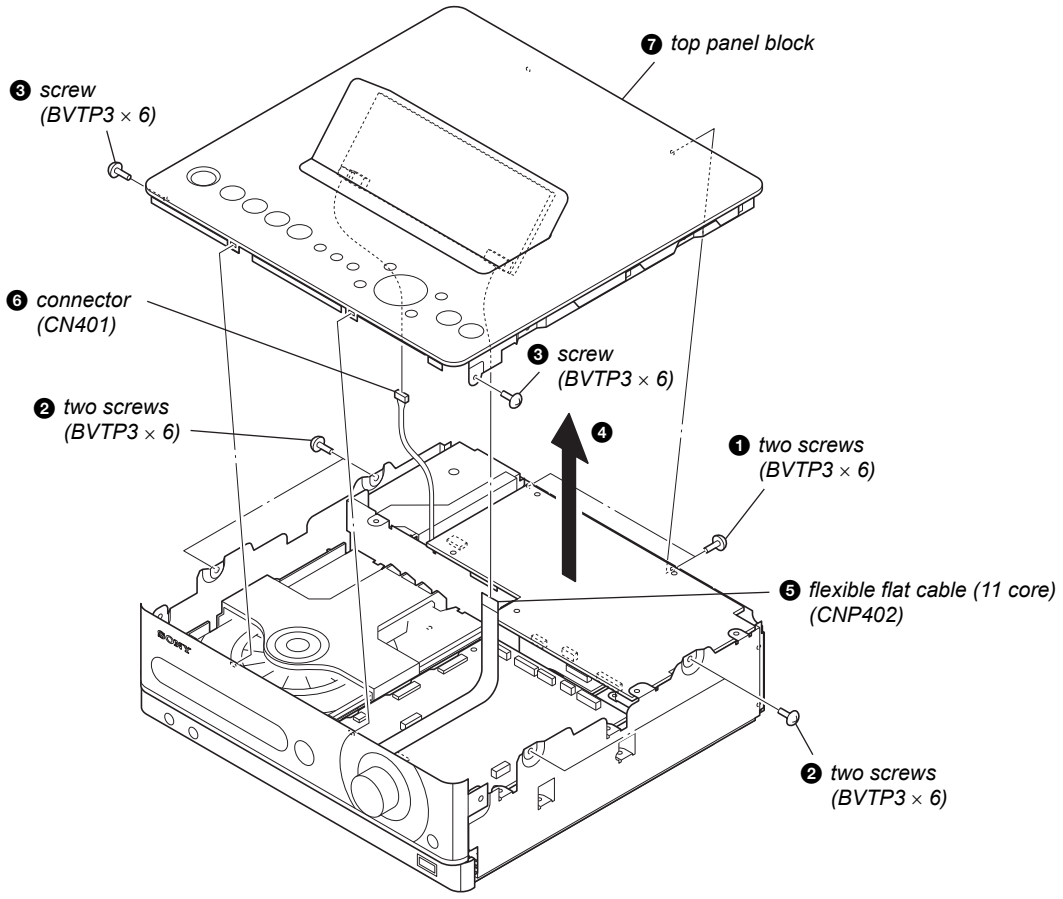

SET
3-2. PANEL (SIDE L/R) (Page 9)
3-3. TOP PANEL BLOCK (Page 9)
3-4. HP JACK BOARD, KEY (FRONT) BOARD, FRONT (PANEL) ASSY (Page 10)
3-6. FL BLOCK (Page 11)
3-5. POWER BOARD (Page 10)
3-7. DISPLAY BOARD (Page 11)
3-8. DAB BOARD, DMP BOARD, TUNER (FM/AM) (Page 12)
3-9. MAIN BOARD (Page 13)
3-10. CD MECHANISM BLOCK (Page 13)
3-11. USB MICOM BOARD (Page 14)
3-13. BASE UNIT (Page 15)
3-12. HDD ASSY (Page 14)
3-14. BELT (Page 15)
3-15. OP BASE ASSY (KSM215DHAP) (Page 16)

Note: Follow the disassembly procedure in the numerical order given.

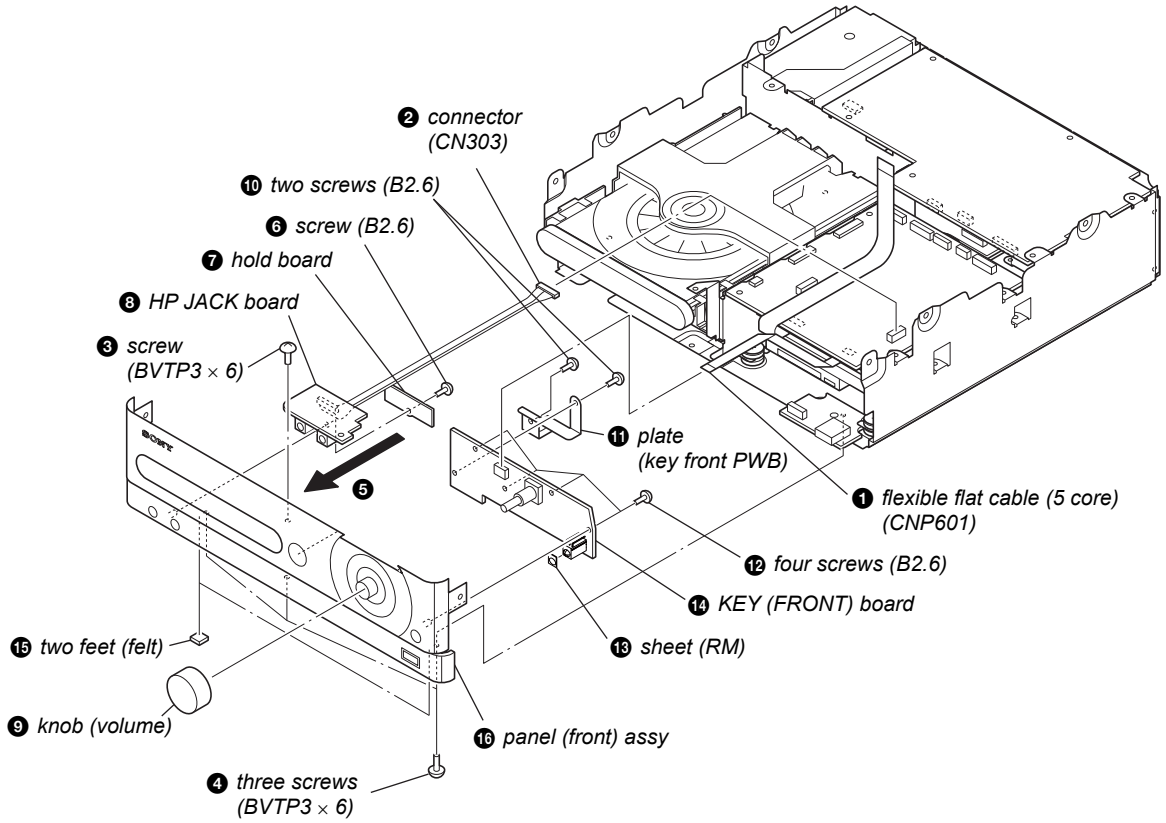
3-2. PANEL (SIDE L/R)



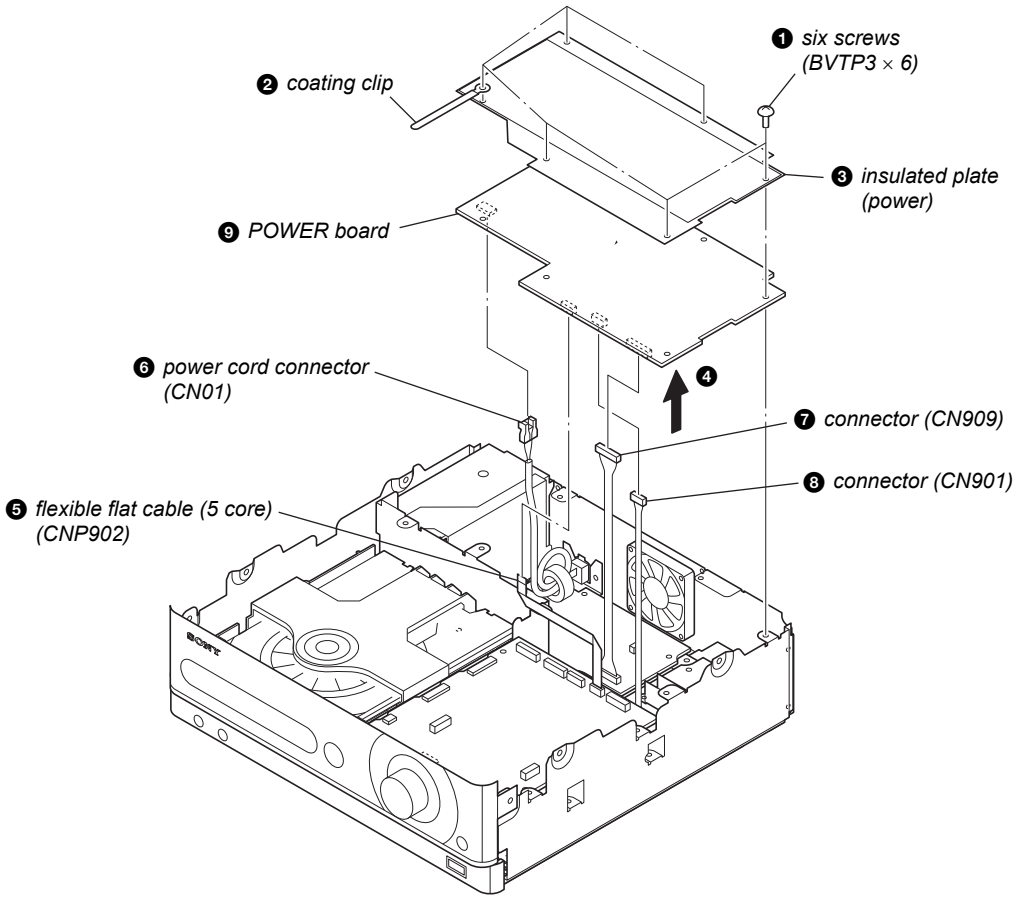
3-3. TOP PANEL BLOCK



3-4. HP JACK BOARD, KEY (FRONT) BOARD, PANEL (FRONT) ASSY

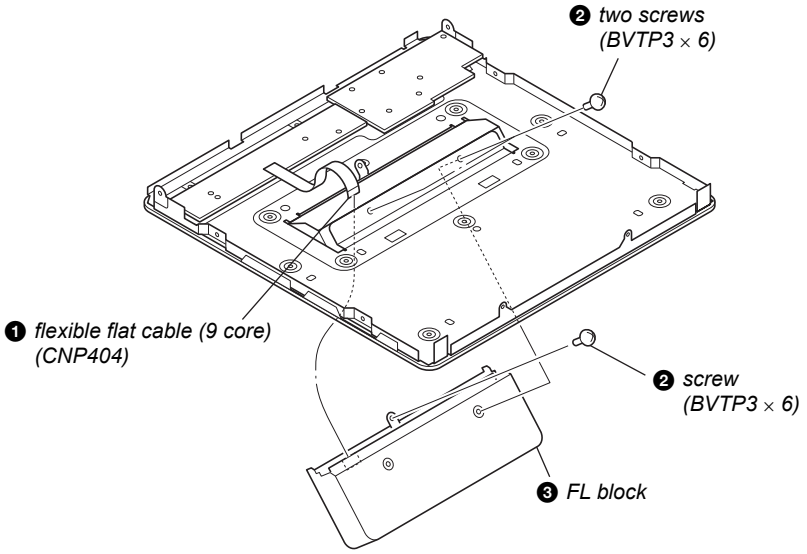


3-5. POWER BOARD

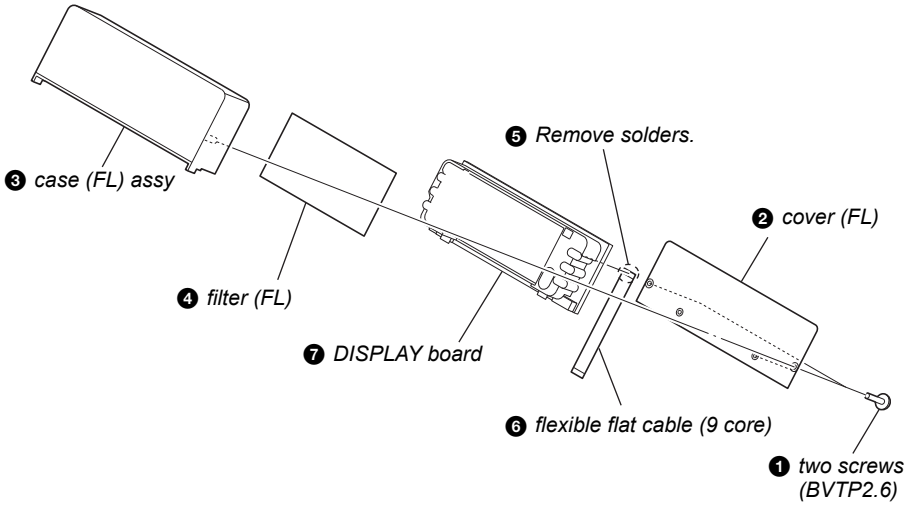


3-6. FL BLOCK

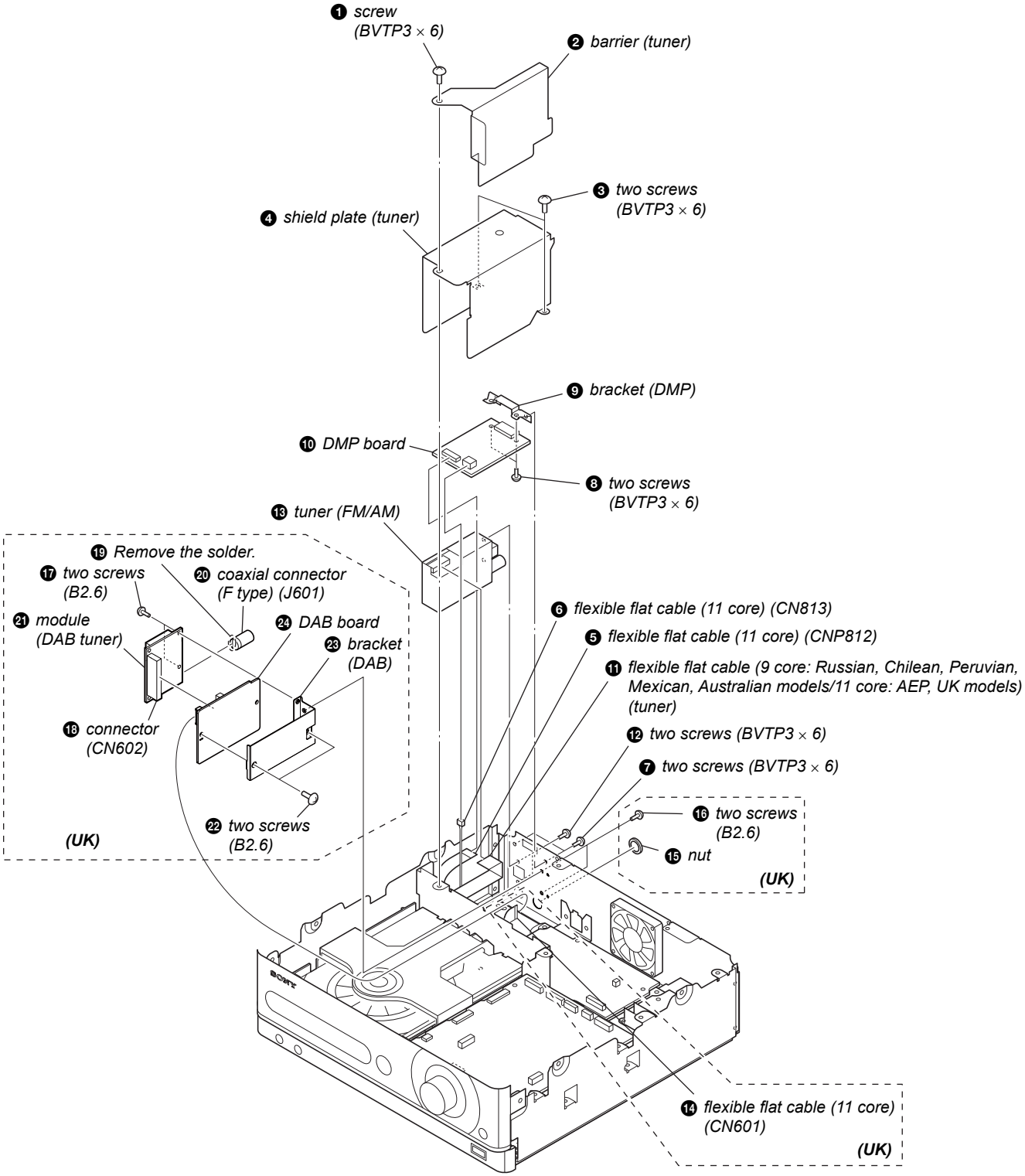
Note: This illustration is seeing of top panel block from the inside.



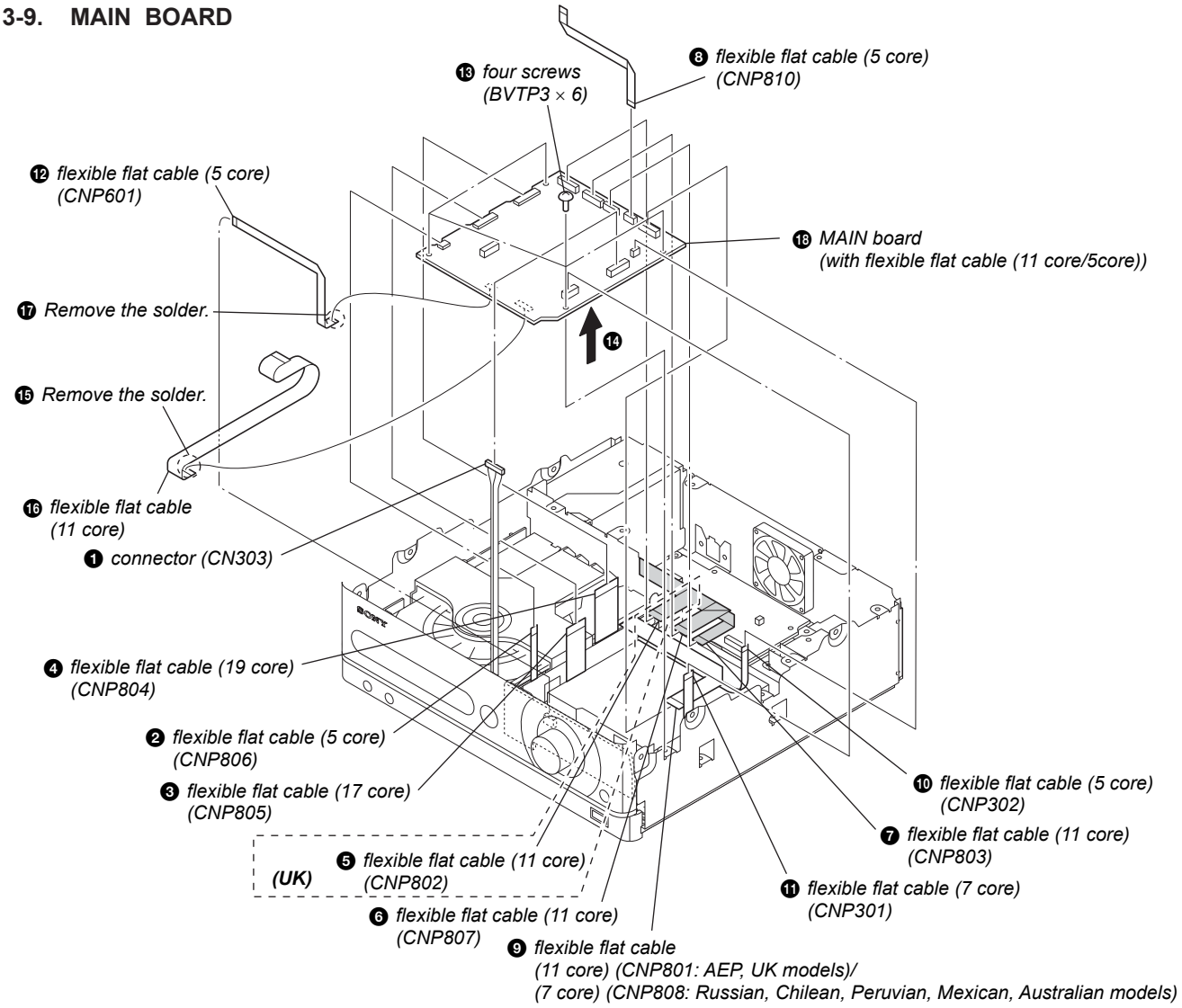
3-7. DISPLAY BOARD



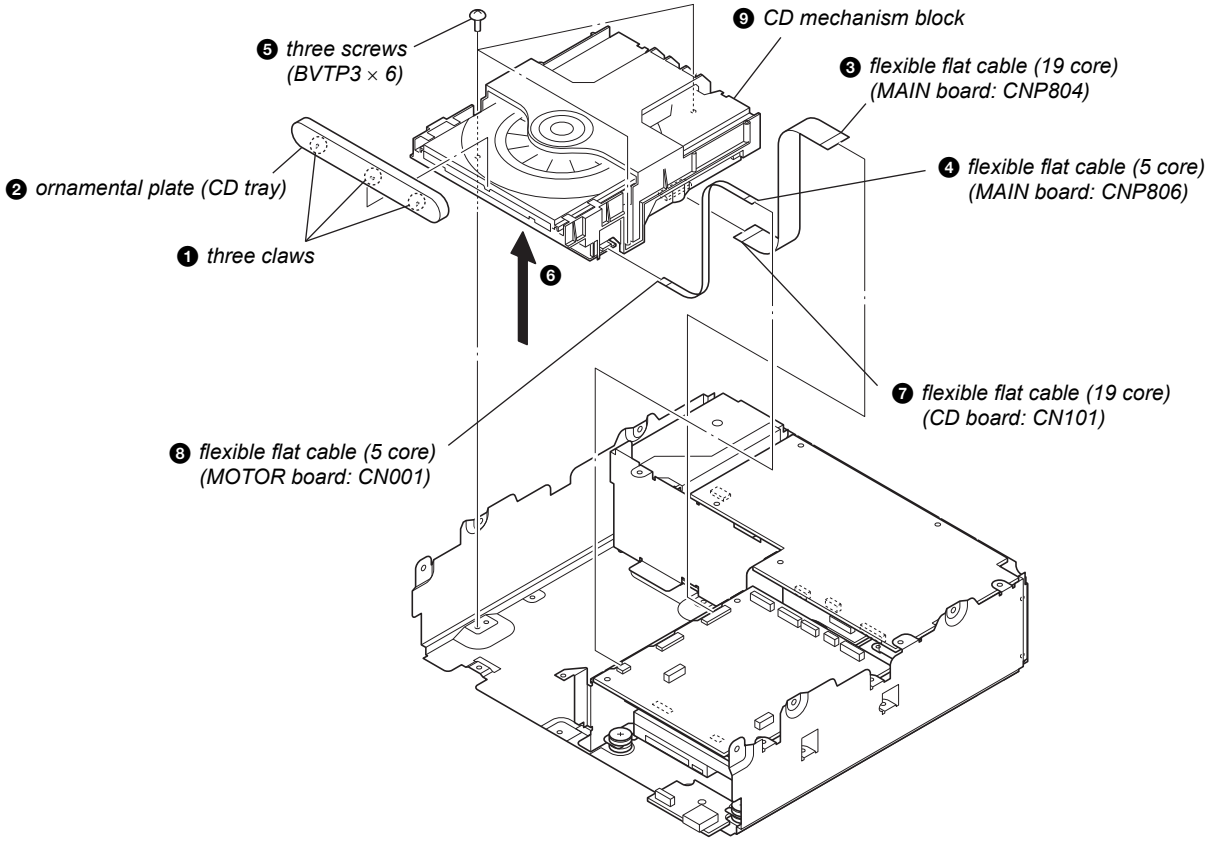
3-8. DAB BOARD, DMP BOARD, TUNER (FM/AM)


❶ screw (BVTP3 × 6)
❷ barrier (tuner)
❸ two screws (BVTP3 × 6)
❹ shield plate (tuner)
❾ bracket (DMP)
❿ DMP board
❽ two screws (BVTP3 × 6)
⓭ tuner (FM/AM)
⓳ Remove the solder.
⓱ two screws (B2.6)
⓴ coaxial connector (F type) (J601)
㉑ module (DAB tuner)
㉔ DAB board
㉓ bracket (DAB)
⓲ connector (CN602)
㉒ two screws (B2.6)
(UK)
❻ flexible flat cable (11 core) (CN813)
❺ flexible flat cable (11 core) (CNP812)
⓫ flexible flat cable (9 core: Russian, Chilean, Peruvian, Mexican, Australian models/11 core: AEP, UK models) (tuner)
⓬ two screws (BVTP3 × 6)
❼ two screws (BVTP3 × 6)
⓰ two screws (B2.6)
⓯ nut
(UK)
⓮ flexible flat cable (11 core) (CN601)
(UK)

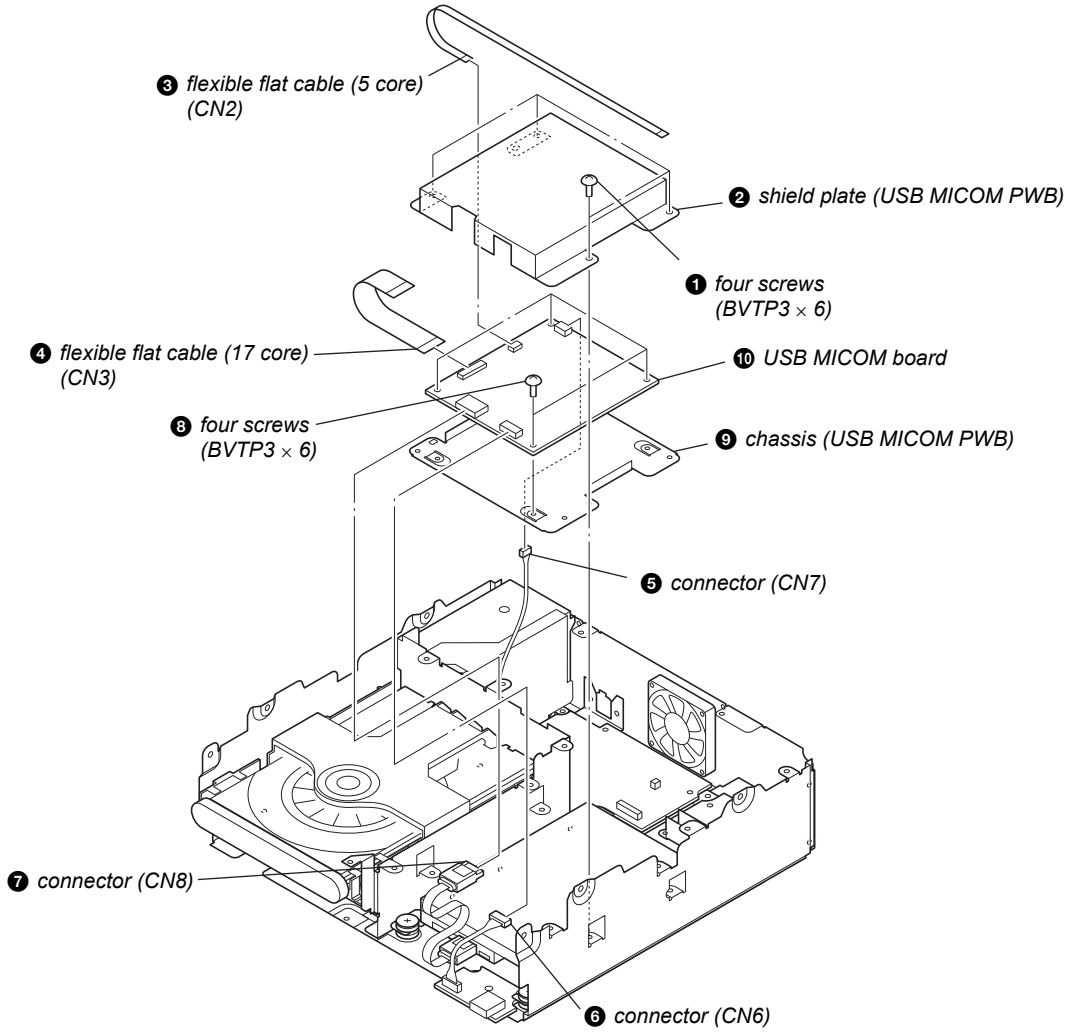
3-9. MAIN BOARD


⓭ four screws (BVTP3 × 6)
❽ flexible flat cable (5 core) (CNP810)
⓬ flexible flat cable (5 core) (CNP601)
⓲ MAIN board (with flexible flat cable (11 core/5core))
⓱ Remove the solder.
⓮
⓯ Remove the solder.
⓰ flexible flat cable (11 core)
❶ connector (CN303)
❹ flexible flat cable (19 core) (CNP804)
❷ flexible flat cable (5 core) (CNP806)
❸ flexible flat cable (17 core) (CNP805)
(UK)
❺ flexible flat cable (11 core) (CNP802)
❻ flexible flat cable (11 core) (CNP807)
❾ flexible flat cable (11 core) (CNP801: AEP, UK models)/ (7 core) (CNP808: Russian, Chilean, Peruvian, Mexican, Australian models)
❿ flexible flat cable (5 core) (CNP302)
❼ flexible flat cable (11 core) (CNP803)
⓫ flexible flat cable (7 core) (CNP301)

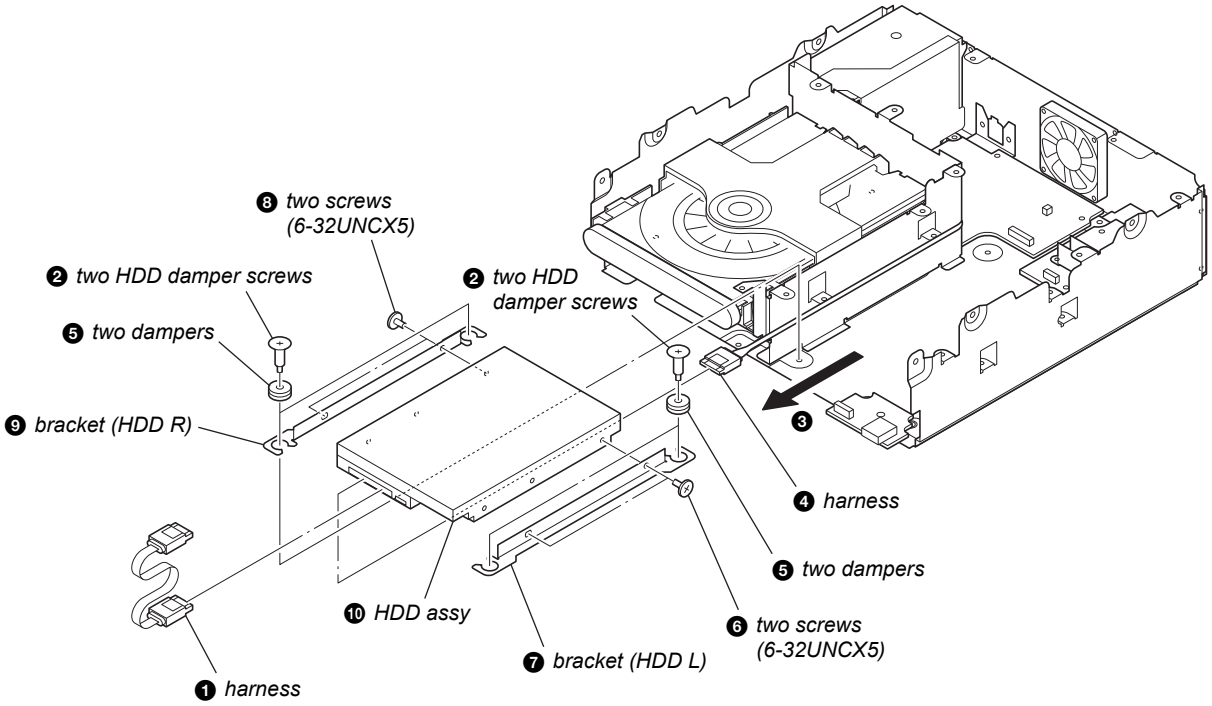
3-10. CD MECHANISM BLOCK


❺ three screws (BVTP3 × 6)
❾ CD mechanism block
❸ flexible flat cable (19 core) (MAIN board: CNP804)
❹ flexible flat cable (5 core) (MAIN board: CNP806)
❷ ornamental plate (CD tray)
❶ three claws
❻
❼ flexible flat cable (19 core) (CD board: CN101)
❽ flexible flat cable (5 core) (MOTOR board: CN001)

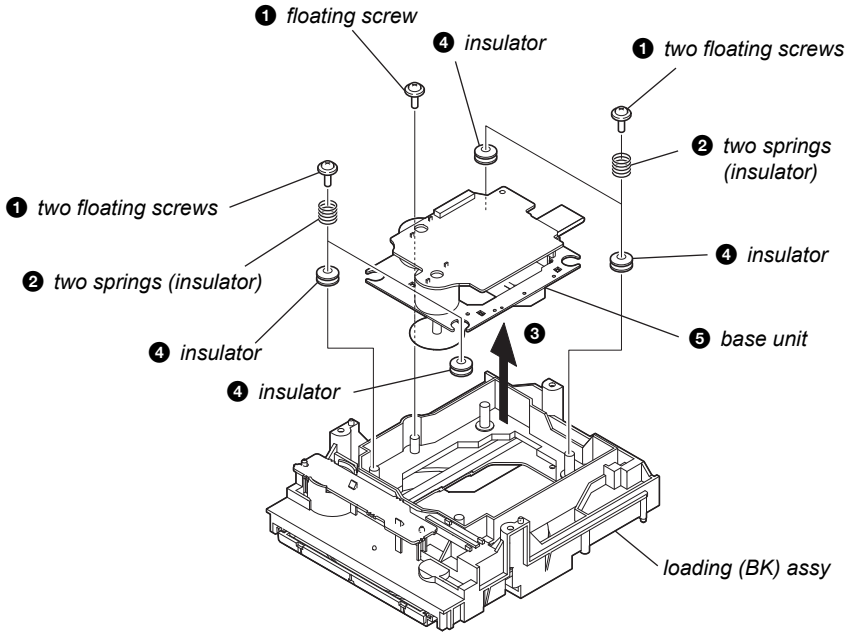
3-11. USB MICOM BOARD


❸ flexible flat cable (5 core) (CN2)
❷ shield plate (USB MICOM PWB)
❶ four screws (BVTP3 × 6)
❹ flexible flat cable (17 core) (CN3)
❿ USB MICOM board
❽ four screws (BVTP3 × 6)
❾ chassis (USB MICOM PWB)
❺ connector (CN7)
❼ connector (CN8)
❻ connector (CN6)

3-12. HDD ASSY

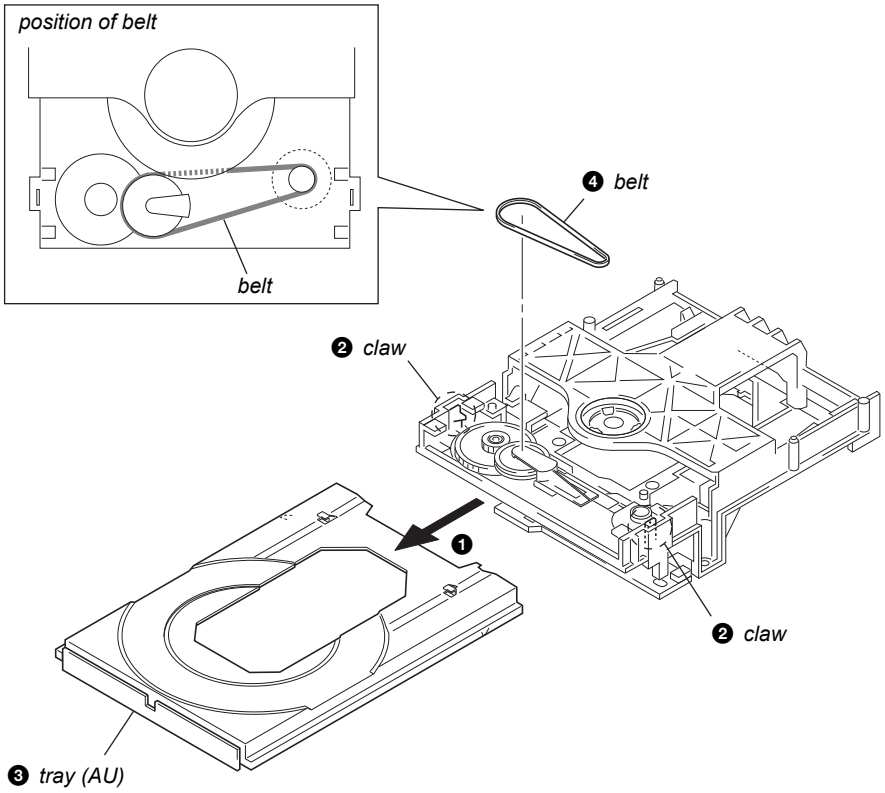


3-13. BASE UNIT

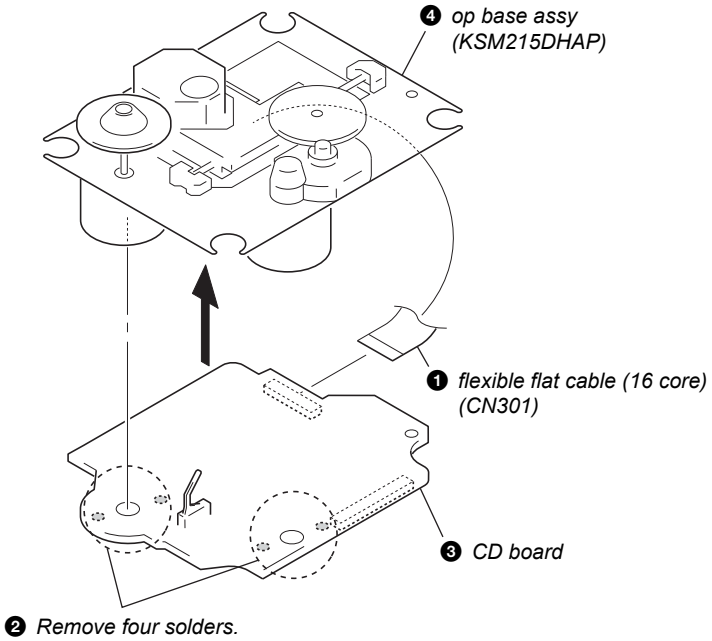


– Bottom view –

3-14. BELT



3-15. OP BASE ASSY (KSM215DHAP)



SECTION 4
TEST MODE

COLD RESET

The cold reset clears all data including preset data stored in the memory to initial conditions. Execute this mode when returning the set to the customer.

Procedure:

1. In the standby status, press the [I/⏻] button to turn the power on.
2. Press three buttons of [■], [ENTER] and at last [I/⏻] simultaneously.
3. The set enters standby status.

PANEL TEST MODE

Enter The Panel Test Mode

Procedure:

1. In the standby status, press the [I/⏻] button to turn the power on.
2. Press three buttons of [BACK], [■], and [⏏] simultaneously.
3. When the panel test mode is activated, LEDs and segments of the fulorescent indicator tube are all turned on.

Version Check

Procedure:

1. In the panel test mode (all LEDs and segments of the fulorescent indicator tube are turned on), press the [BACK] button.
2. On the fulorescent indicator tube, model name, destination, MC version and its last updated date are displayed.
3. Each time [BACK] button is pressed, the display changes starting from MC, GC, GENE, GNS, HDD, USB, CD, CDMA, CDMB, ST, TA, TM and CLA version this order, and returns to the MC version display.
4. To release from this mode, press three buttons of [BACK], [■], and [⏏] simultaneously.

Key Test Mode

Procedure:

1. In the panel test mode (all LEDs and segments of the fulorescent indicator tube are turned on), press the [ENTER] button.
2. The message “KEY0 VOL0” displayed. Whenever any buttons are pressed and the [VOLUME] dial is turned, the value is changed.
3. To release from this mode, press three buttons of [BACK], [■], and [⏏] simultaneously.

CD SHIP MODE

This mode can run the CD sled motor optionally. Use this mode, for instance, when cleaning the optical pick-up.

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Confirm there is no disc in all trays.
3. Press the [FUNCTION] button to select CD function.
4. Press two buttons of [OPTIONS] and [I/⏻] simultaneously.
5. Set to the CD ship mode. (chucking on)
6. After blink “STANDBY”, “LOCK” is displayed, disconnect the AC plug.

CD TRAY LOCK

This mode is for the antitheft of CD disc in shop. (not for transport)

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Press the [FUNCTION] button to select CD function.
3. Insert a disc.
4. While pressing the [■] button, press the [⏏] button for more 5 seconds.
5. The message “LOCKED” is displayed and the disc tray is locked. (Even if exiting from this mode, the disc tray is still locked)
6. If press the [⏏] button to eject the disc, the message “LOCKED” is displayed and can not eject the disc.
7. To release this lock, while pressing the [■] button, press the [⏏] button for 5 seconds again.
8. The message “UNLOCKED” is displayed and the disc tray is unlocked.

CD POWER MANAGE

This mode is for switch the CD power supply on/off. Even if this state pulls out AC plug, it is held.

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Press the [FUNCTION] button to select CD function.
3. Press the [I/⏻] button again to turn the power off (standby).
4. After pressing the [DISPLAY] button on the remote commander, while pressing the [■] button, press the [I/⏻] button.
5. It turns power on and display “CD POWER ON” or “CD POWER OFF”.

CHANGE-OVER THE AM TUNING INTERVAL

(Mexican, Chilean, Peruvian and Argentina models)

The AM tuning interval can be changed over 9 kHz or 10 kHz.

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Press the [TUNER/BAND] button to select TUNER (AM) function.
3. Press the [I/⏻] button again to turn the power off (standby).
4. After pressing the [DISPLAY] button on the remote commander, while pressing the [TUNE + ►► ▷▷⏐] button, press the [I/⏻] button.
5. It turns power on and display “9k STEP” or “10k STEP”, and thus the tuning interval is changed over.

CD SHIP AND COLD RESET

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Confirm there is no disc in all trays.
3. Press the [FUNCTION] button to select CD function.
4. Press three buttons of [OPTION], [BACK] and [I/⏻] simultaneously.
5. After blink “STANDBY”, “LOCK” is displayed, disconnect the AC plug.

COMMON TEST MODE

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Press three buttons of [■], [ENTER], and [⏏] simultaneously.
3. It enters the common test mode and the "PLAY SLEEP" segment on the fluorescent indicator tube blinks.
4. Each time the [VOLUME] dial is turned, "VOLUME MIN" and "VOLUME MAX" are displayed.
5. Each time the [EQ] button on the remote commander is pressed, "TONE MAX", "TONE MIN" and "TONE FLAT" are displayed.
6. To release from this mode, press the [I/⏻] button to turn the power off.

HDD TEST MODE

The CDDB version display, custom DB initialization, HDD writing/reading test, HDD test data deletion, format, HDD setup and initialization mode for factory can be executed in this mode.

Enter The HDD Test Mode

Procedure:

1. In the standby status, press the [I/⏻] button to turn the power on.
2. Press three buttons of [⏮ ◀◀ TUNE –], [🡻] and [⏏] simultaneously.
3. When the HDD test mode is activated.

1. CDDB Version Display

The version of CDDB built into HDD is displayed.

Procedure:

1. Enter the HDD test mode.
2. Press the [🡹] [🡻] button to select the "CDDB Version", and press the [ENTER] button.
3. The version of CDDB is displayed on the fluorescent indicator tube.

2. Custom DB Initialization

The initialization of custom DB recorded in HDD is executed.

Procedure:

1. Enter the HDD test mode.
2. Press the [🡹] [🡻] button to select the "Custom Init", and press the [ENTER] button.
3. The following files in HDD are deleted.
   - ROOT\SYSTEM\CCUDB\CCU.EDB
   - ROOT\SYSTEM\CCUDB\CCU.IDX
   - ROOT\SYSTEM\CCUDB\CCUTOC.IDX
   - ROOT\SYSTEM\CCUDB\SCCU.EDB
   - ROOT\SYSTEM\CCUDB\SCCU.IDX
   - ROOT\SYSTEM\CCUDB\SCCUTOC.IDX

3. HDD Writing/Reading Test

The writing/reading of test data is done to HDD, and whether it operates normally is checked.

Procedure:

1. Enter the HDD test mode.
2. Press the [🡹] [🡻] button to select the "HDD W/R Test", and press the [ENTER] button.
3. The writing reading of the test data is done to HDD, and the result is displayed.
   When the writing/reading of the test data ends normally, the written test data is deleted.
   - W/R Test OK : The writing/reading of the test data ended normally.
   - W/R NG : Abnormality occurred in the writing/reading of the test data.
   - Erase NG : It failed in the deletion of the test data.

4. Format

The deletion of all folders and files in HDD is executed.

Note: When this mode is executed, all data including the SYSTEM file in HDD is deleted.
Execute this mode after it notes it enough when executing it.

Procedure:

1. Enter the HDD test mode.
2. Press the [🡹] [🡻] button to select the "Format", and press the [ENTER] button.
3. All folders and files in HDD are deleted.

5. HDD Setup

The installation of initial data is executed from the USB memory to HDD.

Note: The SYSTEM file and the DEMO tune are copied from USB memory after all data in HDD is deleted with format when this mode is executed, and HDD can be returned to the state of initialization (It takes the time of about 80 minutes).
Execute this mode after it notes it enough when executing it because format is executed on the assumption of the thing set up.

Procedure:

1. Connect the USB memory where initial data is recorded to the set.
2. Enter the HDD test mode.
3. Press the [🡹] [🡻] button to select the "Setup", and press the [ENTER] button.
4. The following data is copied from the USB memory to HDD.
   - ROOT\SYSTEM\TitleUpdater.exe
   - ROOT\SYSTEM\TitleUpdaterVersion.txt
   - ROOT\SYSTEM\UCODE.DAT
   - ROOT\SYSTEM\CDDB\ecddb.idx
   - ROOT\SYSTEM\CDDB\ecddb.mdt
   - ROOT\SYSTEM\CDDB\elists.db
   - ROOT\MUSIC\(File of description to "MUJIC\music.txt")

6. Initialization Mode For Factory

The user use areas other than the "Sony Demo" artist in HDD are initialized, and the cold reset is executed.

Procedure:

1. Enter the HDD test mode.
2. Press the [🡹] [🡻] button to select the "FactoryPreset", and press the [ENTER] button.
3. Press the [🡹] [🡻] button to select the "OK?", and press the [ENTER] button.
4. All folder/file in the following folders in HDD is deleted.
   - ROOT\SYSTEM\CCUDB
   - ROOT\MUSIC (excluding folder/file that belongs to "Sony Demo" artist)
5. After initialization ends, the cold reset is executed.

HDD TITLE UPDATE TEST MODE

The title updater version display and title updater update can be executed in this mode.

Enter The HDD Title Update Test Mode

Procedure:

1. In the standby status, press the [I/⏻] button to turn the power on.
2. Press three buttons of [⏮ ◀◀ TUNE -], [➡] and [⏏] simultaneously.
3. When the HDD title updater test mode is activated.

1. Title Updater Version Display

The version of title updater built into HDD is displayed.

Procedure:

1. Enter the HDD title updater test mode.
2. Press the [⬆] [⬇] button to select the “Version”, and press the [ENTER] button.
3. The version of title updater is displayed on the fluorescent indicator tube.

2. Title Updater Update

The version of title updater built into HDD is displayed.

Procedure:

1. Connect the USB memory where “TitleUpdater.exe” is recorded to the set.
2. Enter the HDD title updater test mode.
3. Press the [⬆] [⬇] button to select the “Update”, and press the [ENTER] button.
4. The “TitleUpdater.exe” is copied from the USB memory to HDD.

   Note: In the following cases, the update cannot be executed.

   - The USB memory is not connected.
   - “TitleUpdater.exe" doesn't exist in the USB memory.
   - “TitleUpdater.exe" in the USB memory is a version that is older than it in HDD.

HDD FACTORY SHIPMENT TEST MODE

The user use areas in HDD are initialized, and the cold reset is executed.

Note: When this mode is executed, all the MUSIC data including the DEMO tune in HDD is deleted (The SYSTEM file is not deleted). Execute this mode after it notes it enough when executing it because all the MUSIC data and CDDB updates that the user recorded are deleted.

Procedure:

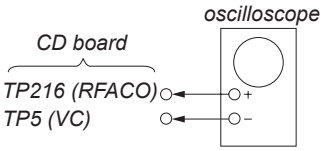
1. In the standby status, press the [I/⏻] button to turn the power on.
2. Press three buttons of [■], [BACK] and [HDD REC] simultaneously.
3. Press the [⬆] [⬇] button to select the “OK?”, and press the [ENTER] button.
4. All folder/file in the following folders in HDD is deleted.
   - ROOT\SYSTEM\CCUDB
   - ROOT\MUSIC
5. After initialization ends, the cold reset is executed.

SECTION 5
ELECTRICAL CHECKS

CD SECTION

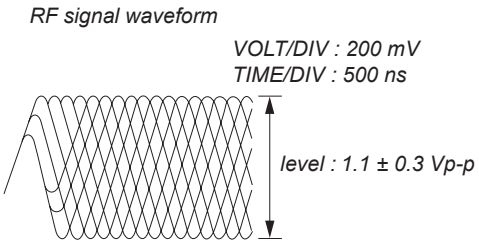
Note:
1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10 MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

RF LEVEL CHECK

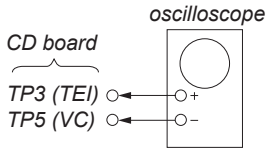


Procedure :
1. Connect an oscilloscope TP216 (RFACO) and TP5 (VC) on the CD board.
2. Turn the power ON.
3. Load a disc (YEDS-18) and playback.
4. Confirm that oscilloscope waveform is clear and check if RF signal level is correct or not.

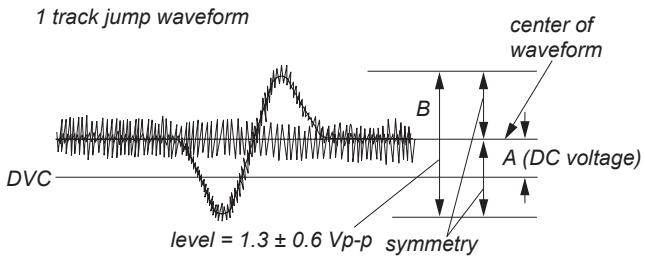
Note: Clear RF signal waveform means that the shape " ◊ " can be clearly distinguished at the center of the waveform.



E-F BALANCE (1 TRACK JUMP) CHECK

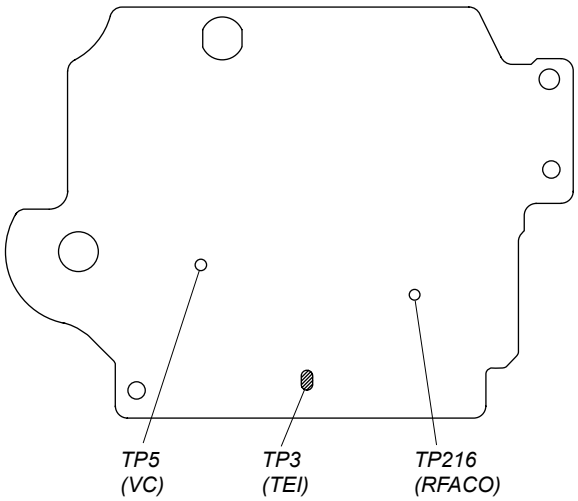


Procedure :
1. Connect an oscilloscope to TP3 (TEI) and TP5 (VC).
2. Turn the power ON.
3. Load a disc (YEDS-18) and playback the number 5 track.
4. Confirm that the level B and A (DC voltage) on the oscilloscope waveform.



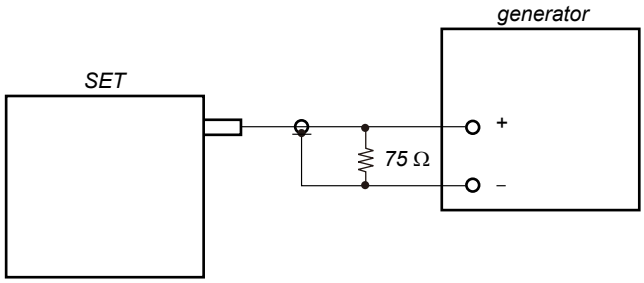
Connecting and Adjustment Location: CD board

– CD BOARD (CONDUCTOR SIDE) –



TUNER SECTION

FM AUTO STOP CHECK



Procedure :
1. Turn the power on.
2. Input the following signal from Signal Generator to FM antenna input directly.

* Carrier Freq : A = 87.5 MHz, B = 98 MHz, C = 108 MHz
Deviation : 75 kHz
Modulation : 1 kHz
ANT input : 35 dBu (EMF)

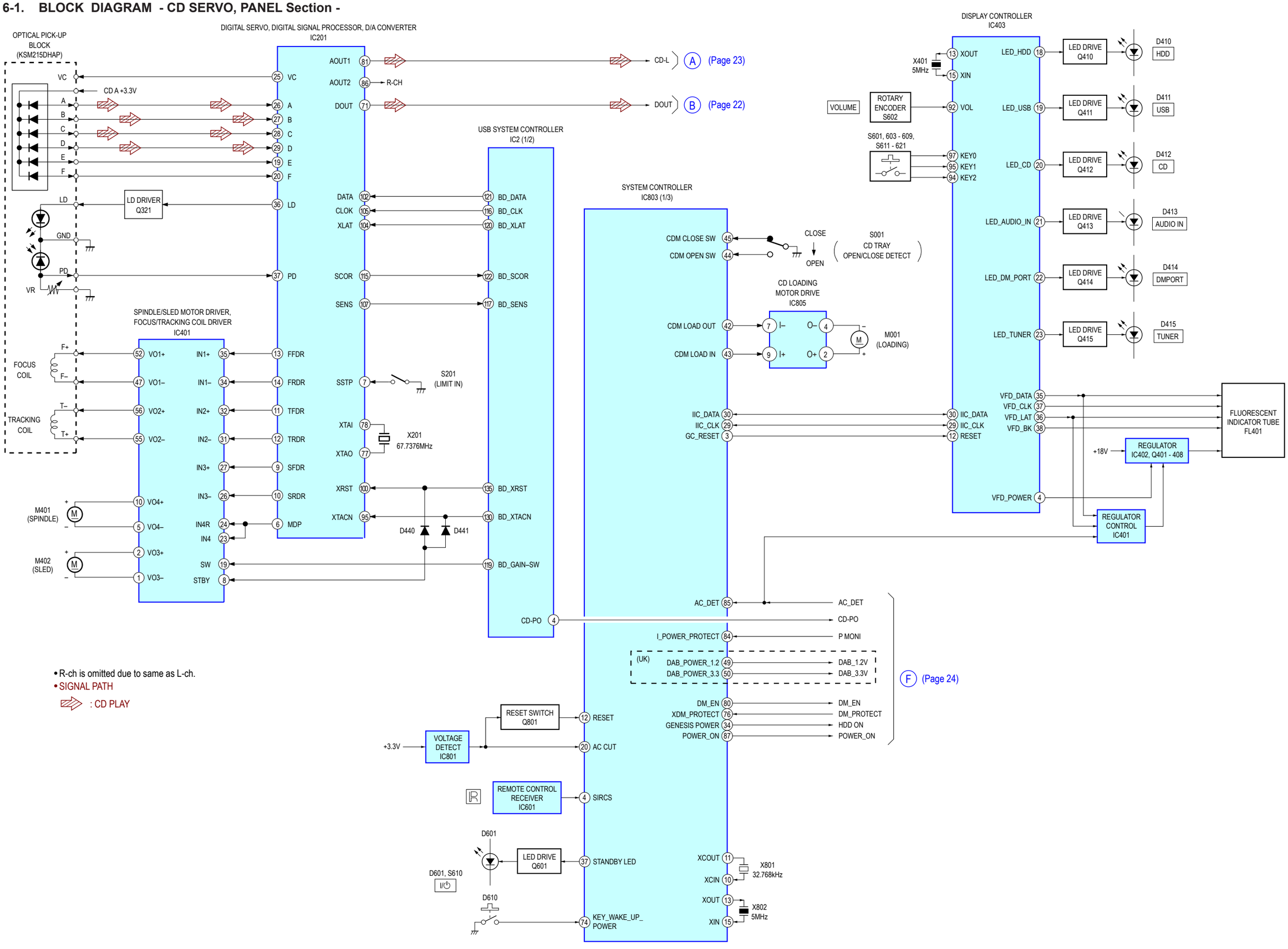
Note: Please use 75 ohm "coaxial cable" to connect SG and the set. You cannot use video cable for checking.
Please use SG whose output impedance is 75 ohm.

3. Set to FM tuner function and scan the input FM signal with automatic scanning.
4. Confirm that input Frequency of A, B and C detected and automatic scanning stops.

The stop of automatic scanning means "The station signal is received in good condition".

SECTION 6
DIAGRAMS

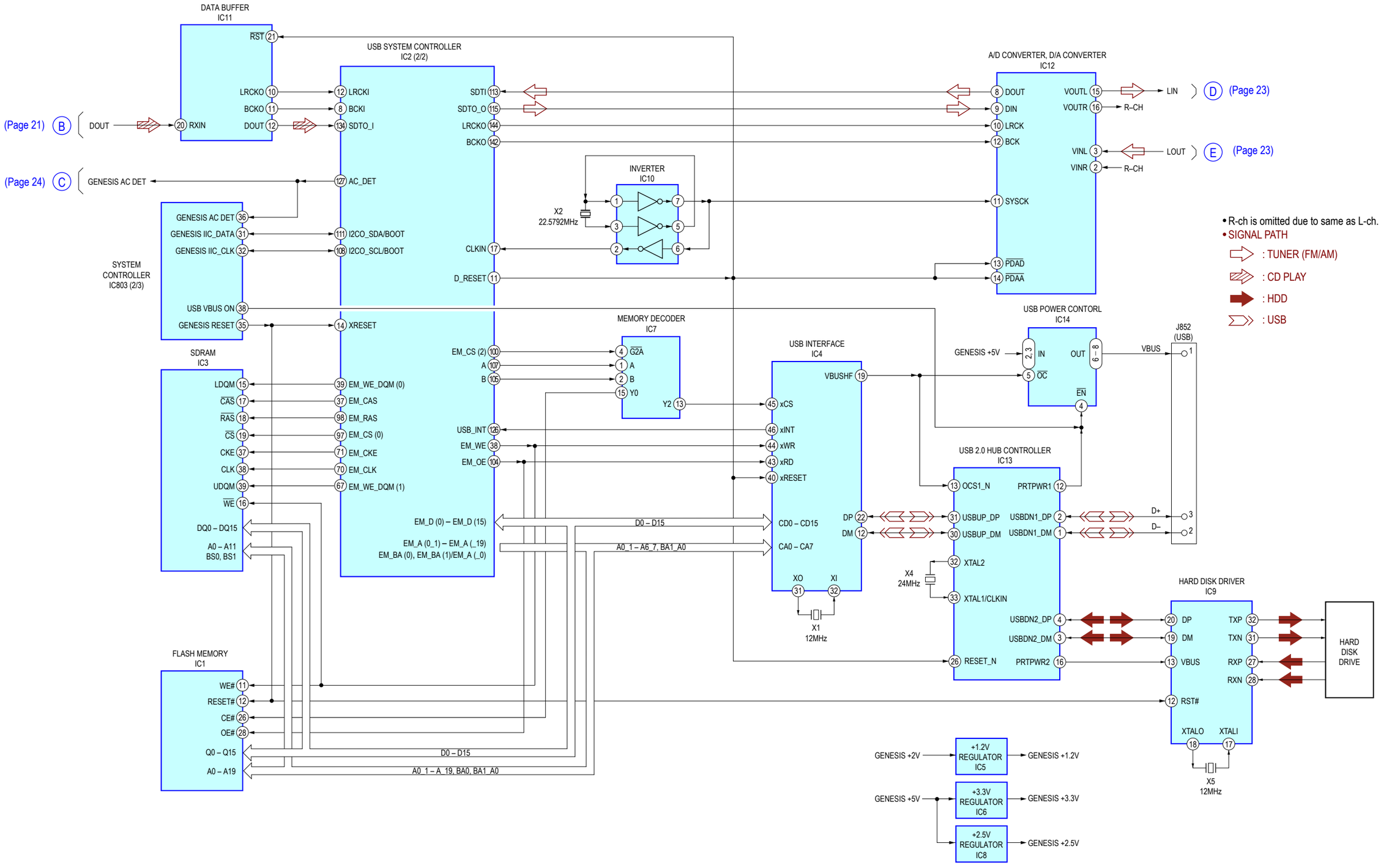
6-1. BLOCK DIAGRAM - CD SERVO, PANEL Section -



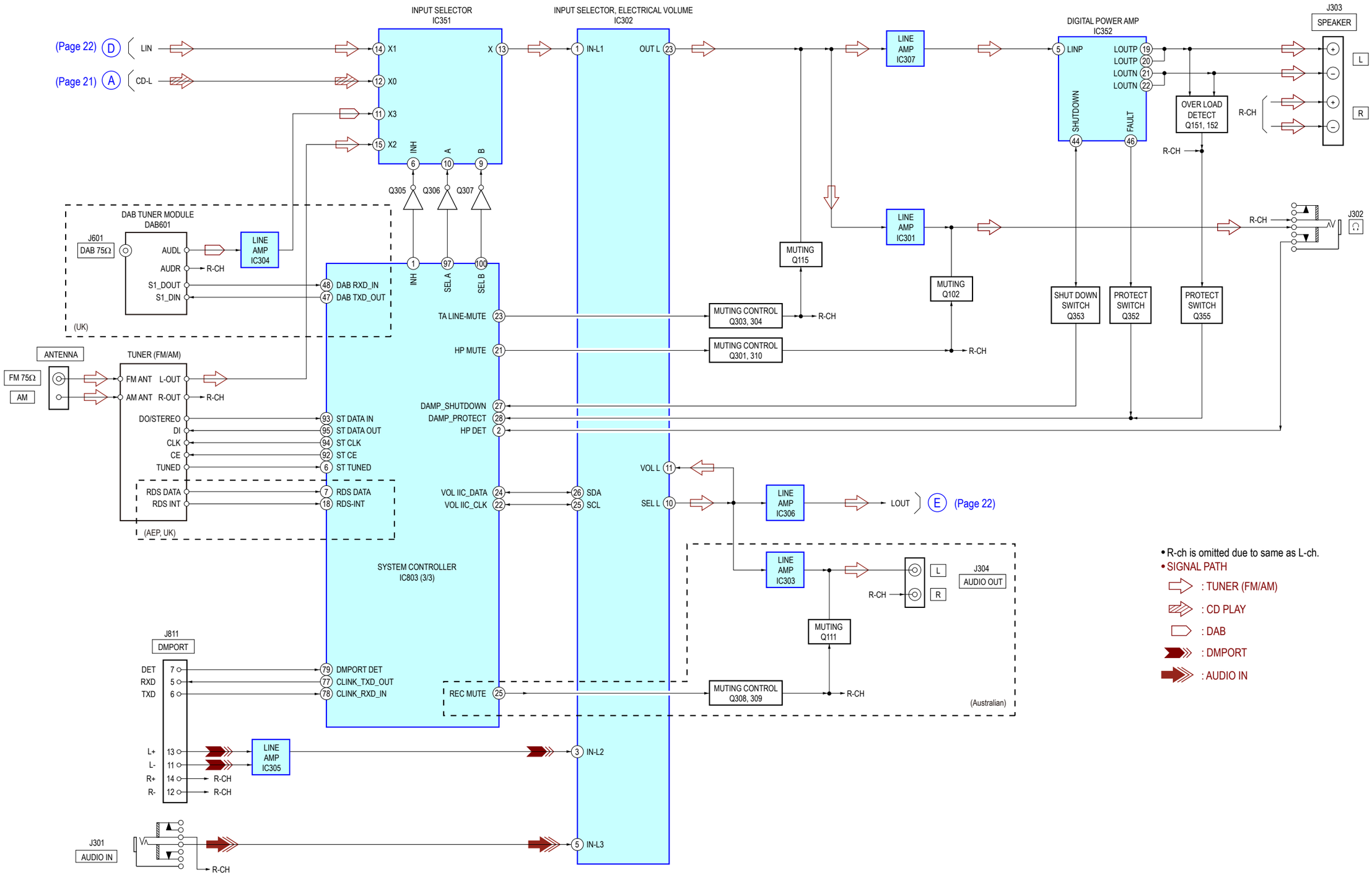
- R-ch is omitted due to same as L-ch.
- SIGNAL PATH

: CD PLAY

6-2. BLOCK DIAGRAM - USB, HDD Section -

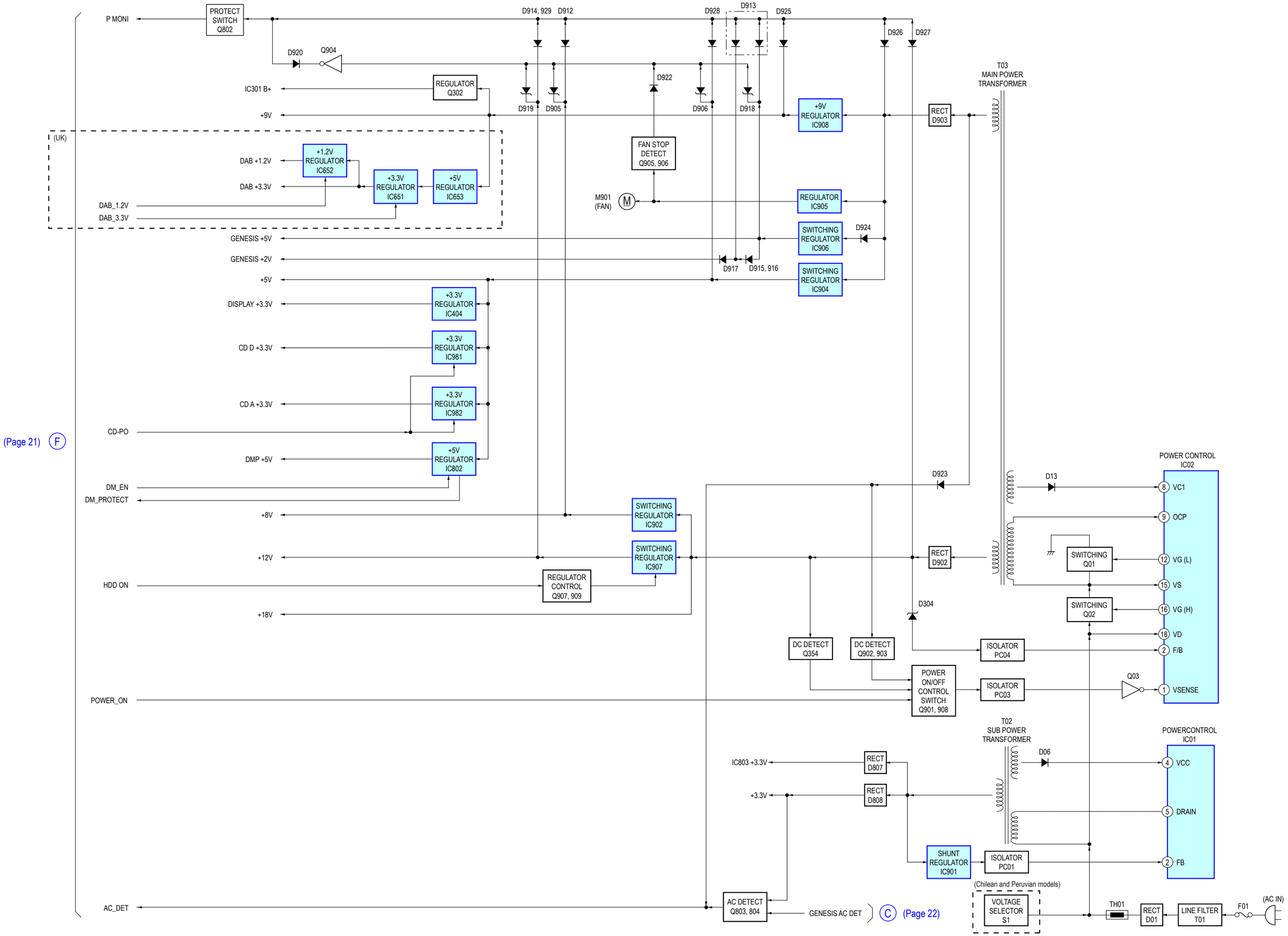


6-3. BLOCK DIAGRAM - MAIN Section -



- R-ch is omitted due to same as L-ch.
- SIGNAL PATH
  - : TUNER (FM/AM)
  - : CD PLAY
  - : DAB
  - : DMPORT
  - : AUDIO IN

6-4. BLOCK DIAGRAM - POWER SUPPLY Section -



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For Printed Wiring Boards.

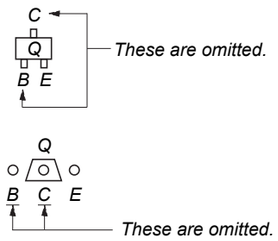
Note:

- o——: Parts extracted from the component side.
- ——: parts extracted from the conductor side.
- △ : internal component.
- ▭: Pattern from the side which enables seeing.
  (The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

Caution:	
Pattern face side: (SIDE B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (SIDE A)	Parts on the parts face side seen from the parts face are indicated.

- USB MICOM board is multi-layer printed board.
  However, the patterns of intermediate-layers have not been included in diagrams.
- Indication of transistor.



For Schematic Diagrams.

Note:

- All capacitors are in µF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
- : panel designation.

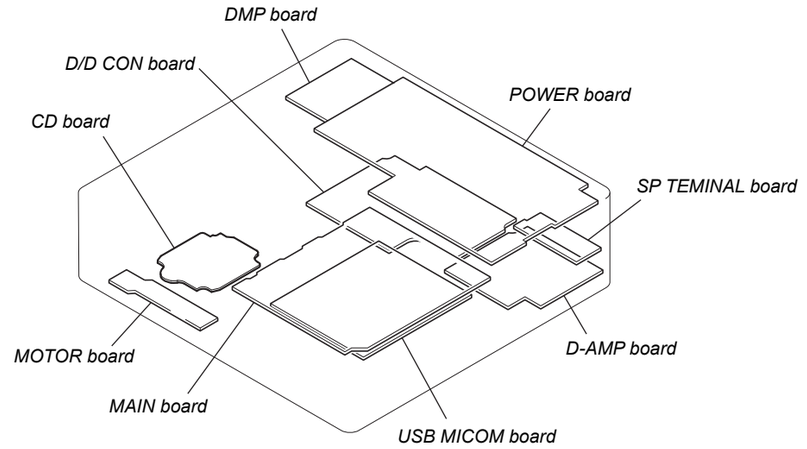
Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

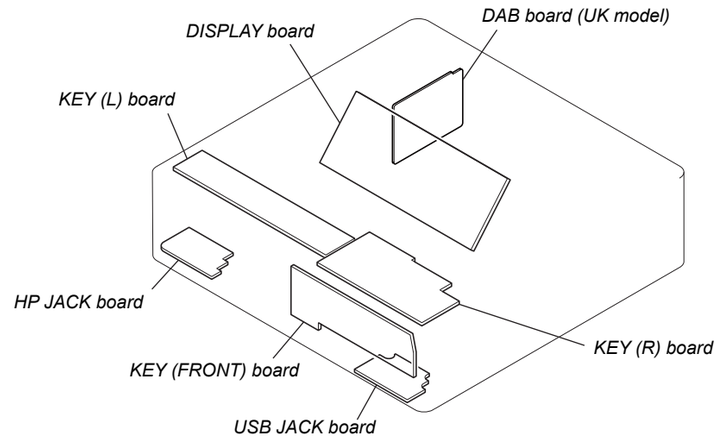
- ▬: B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.

– CD Board –
no mark : CD PLAY
– USB MICOM Board –
no mark : USB PLAY
– Other Boards –
no mark : TUNER (FM/AM)
( ): CD PLAY
‹‹ ›› : USB PLAY

- Voltages are taken with VOM (Input impedance 10 MΩ).
- Circled numbers refer to waveforms.
- Signal path.
  : TUNER (FM/AM)
  : CD PLAY
  : AUDIO IN
  : HDD
  : DAB
  : USB
  : DMPORT
- Abbreviation
  AR : Argentina model
  AUS : Australian model
  E51 : Chilean and Peruvian models
  MX : Mexican model
  RU : Russian model

- **Circuit Boards Location**

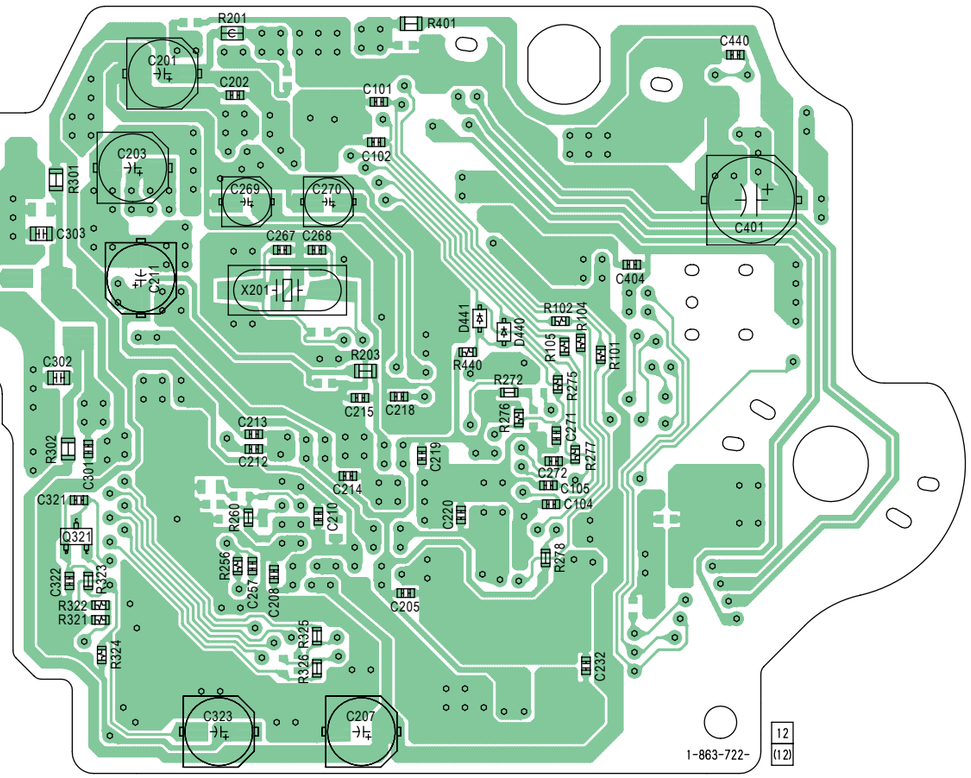




6-5. PRINTED WIRING BOARD - CD Board -

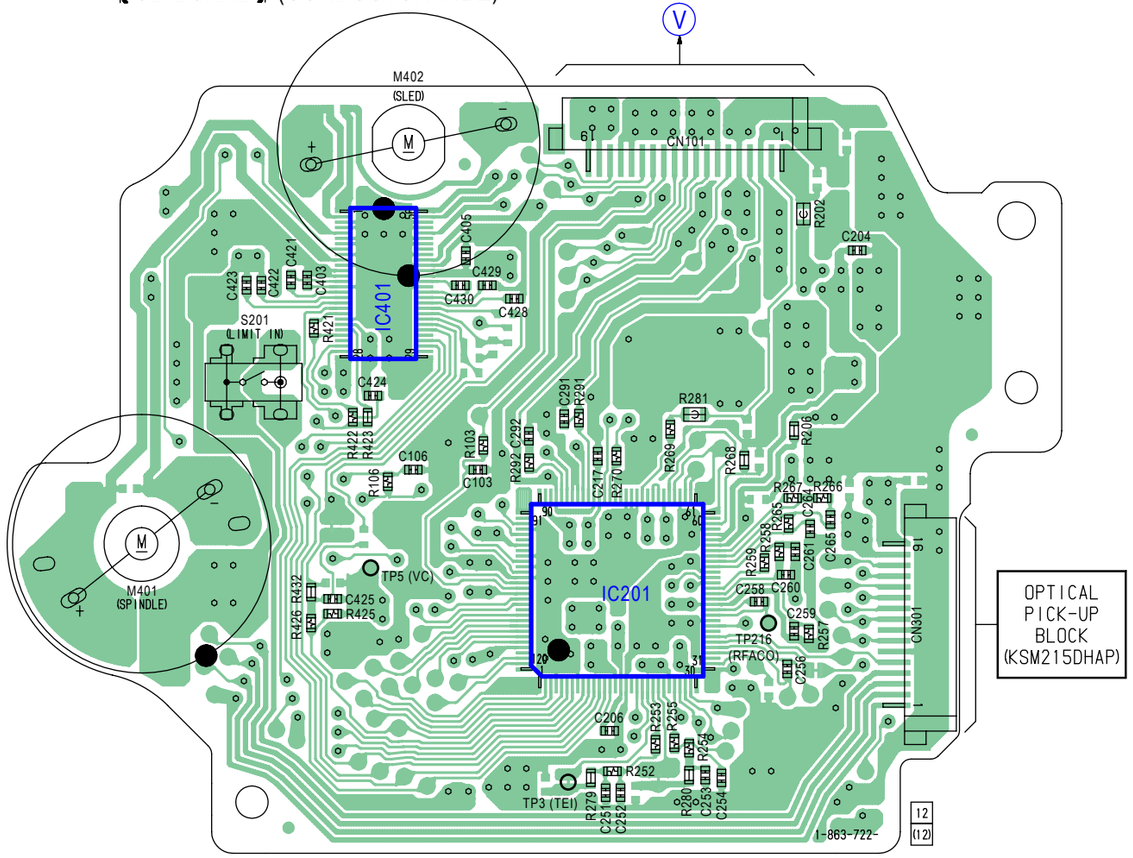
• See page 25 for Circuit Boards Location. • : Uses unleaded solder.

【CD BOARD】(COMPONENT SIDE)



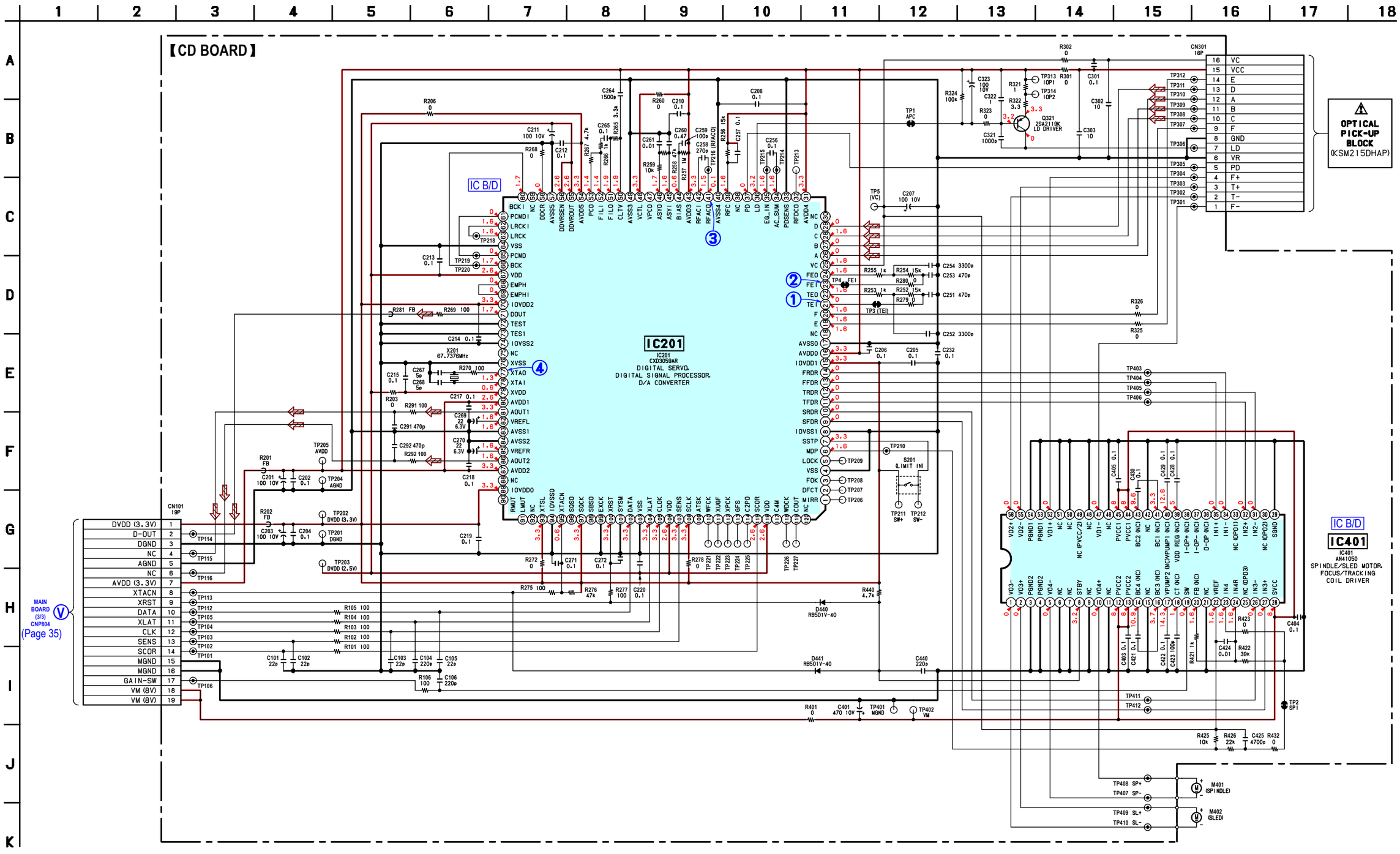
【CD BOARD】(CONDUCTOR SIDE)

(Page 37)
MAIN BOARD
CNP804
V

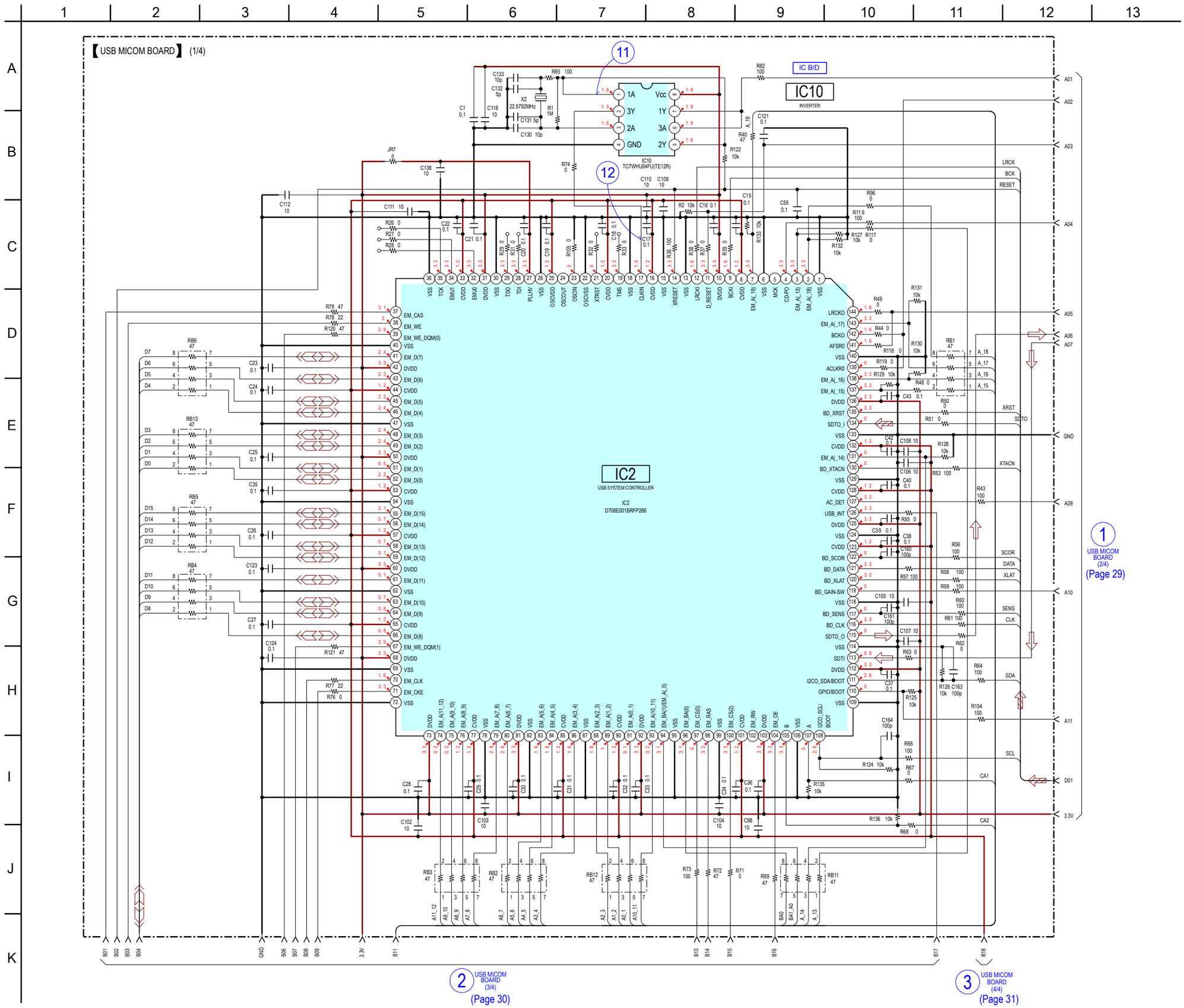


6-6. SCHEMATIC DIAGRAM - CD Board -

• See page 43 for waveforms. • See page 54 for IC Block Diagrams.

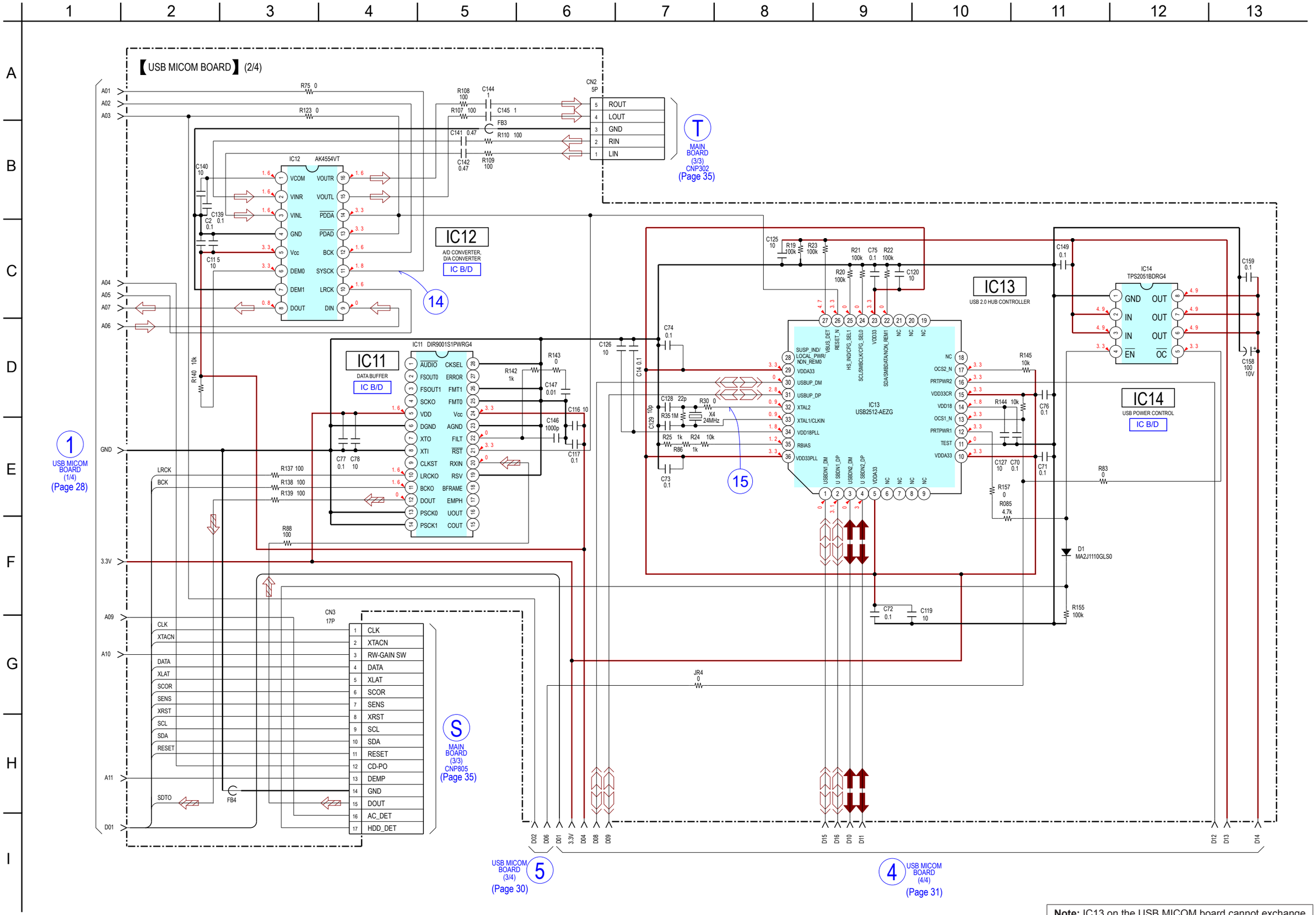


6-7. SCHEMATIC DIAGRAM - USB MICOM Board (1/4) - • See page 43 for waveforms. • See page 54 for IC Block Diagrams. • See page 64 for IC Pin Function Description.



6-8. SCHEMATIC DIAGRAM - USB MICOM Board (2/4) -

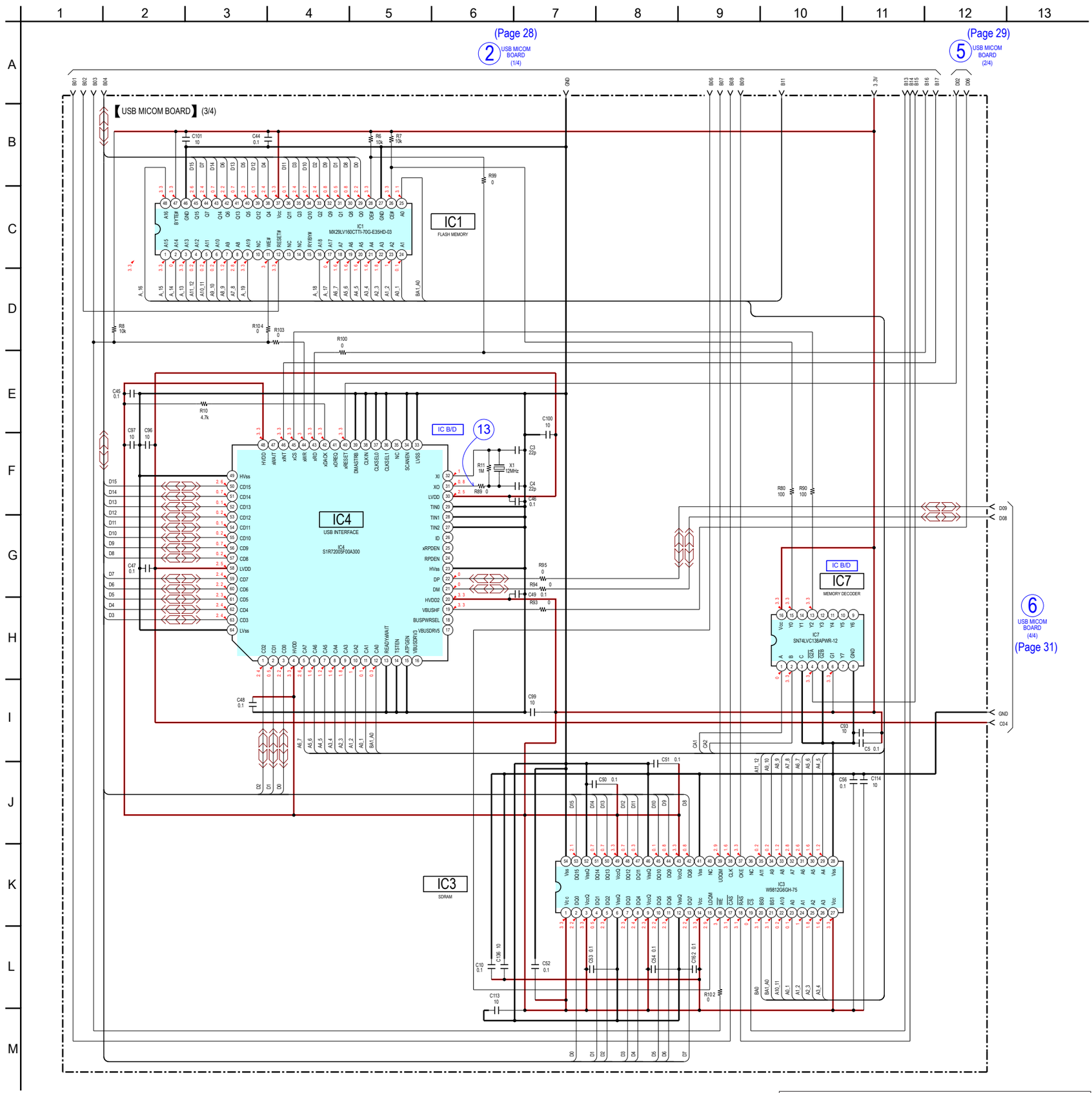
• See page 43 for waveforms. • See page 54 for IC Block Diagrams. • See page 64 for IC Pin Function Description.



Note: IC13 on the USB MICOM board cannot exchange with single. When IC13 on the USB MICOM board is damaged, exchange the entire mounted board.

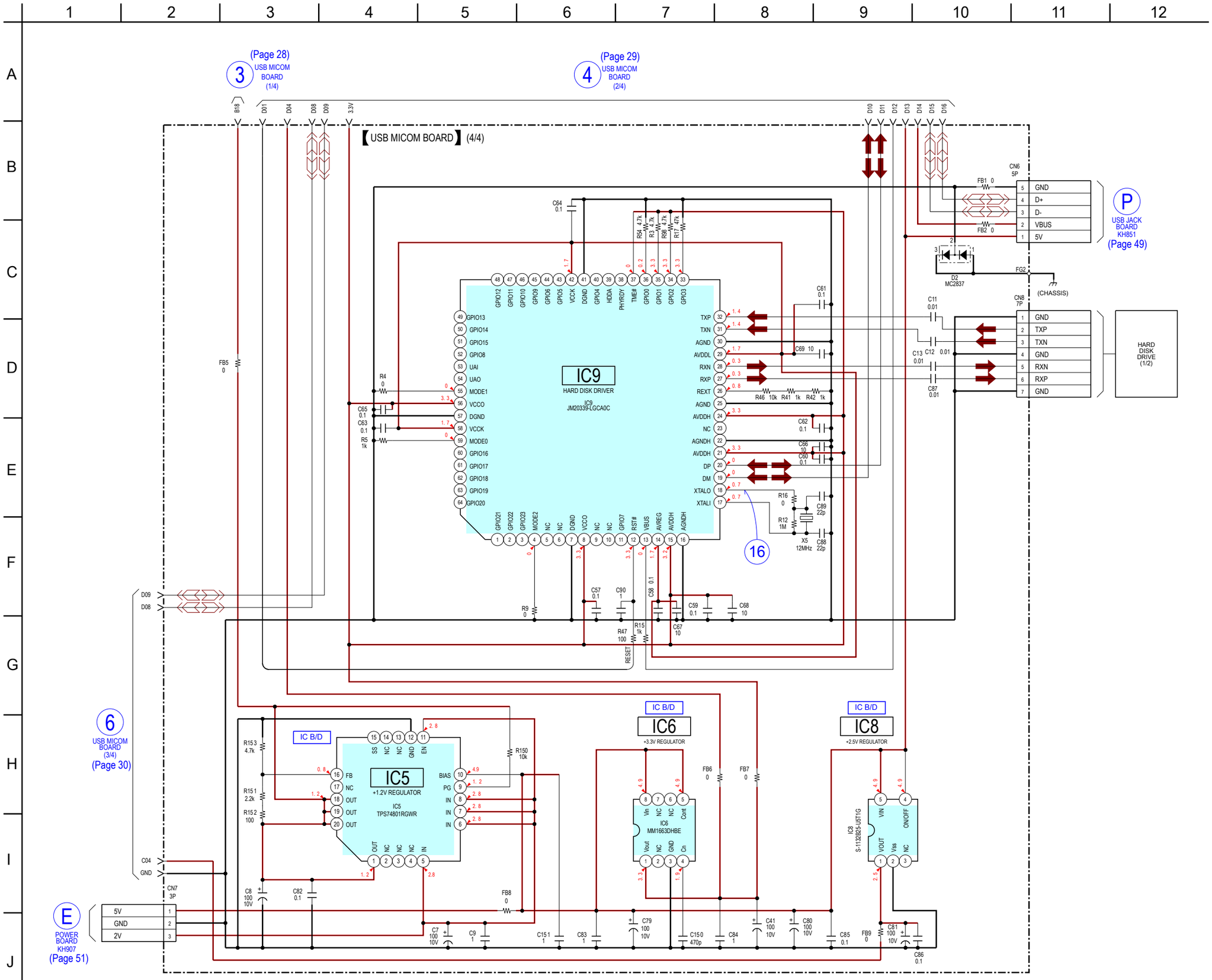
6-9. SCHEMATIC DIAGRAM - USB MICOM Board (3/4) -

• See page 43 for waveforms. • See page 54 for IC Block Diagrams.



Note: IC1 on the USB MICOM board cannot exchange with single. When IC1 on the USB MICOM board is damaged, exchange the entire mounted board.

6-10. SCHEMATIC DIAGRAM - USB MICOM Board (4/4) - • See page 43 for waveforms. • See page 54 for IC Block Diagrams. • See page 64 for IC Pin Function Description.

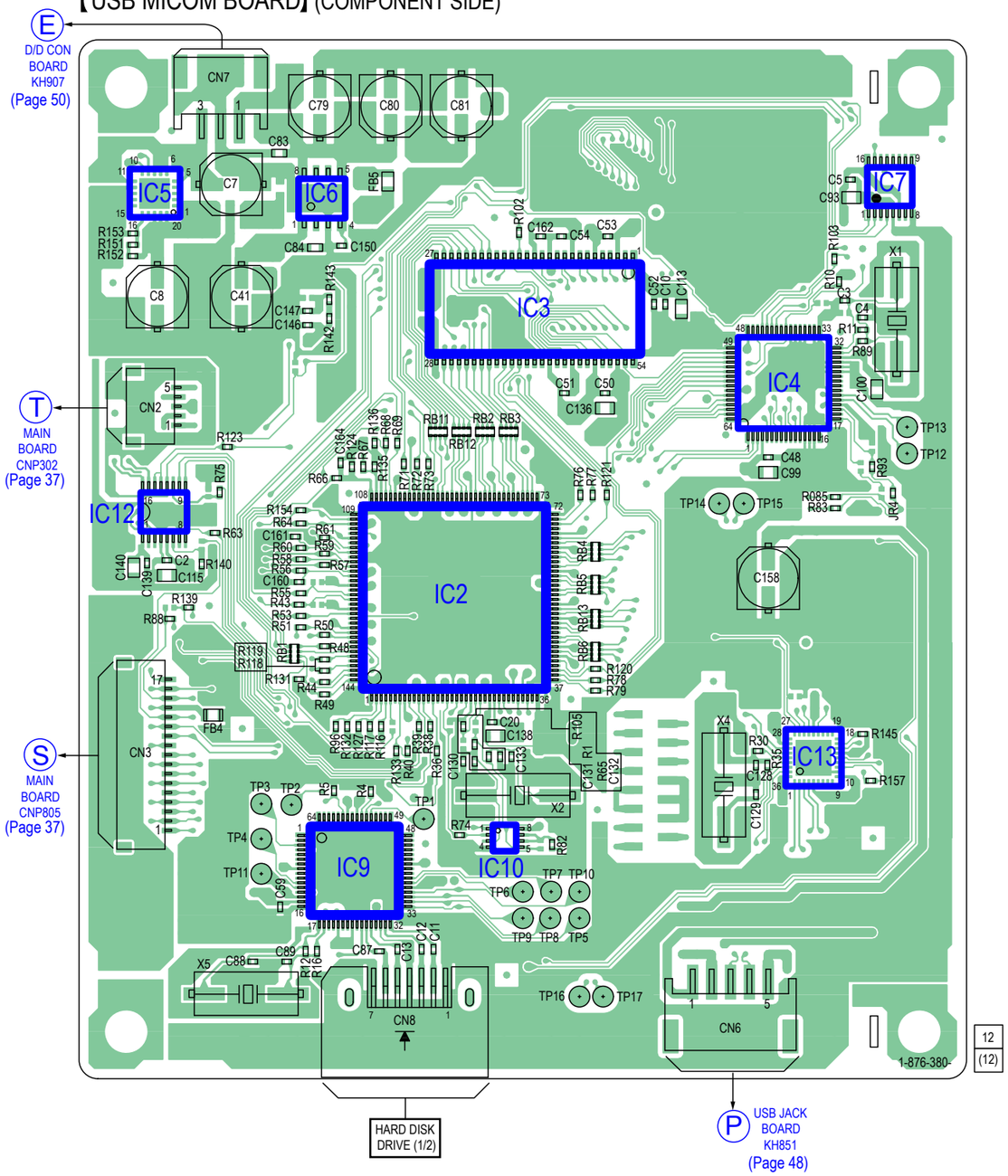


Note: IC5 on the USB MICOM board cannot exchange with single. When IC5 on the USB MICOM board is damaged, exchange the entire mounted board.

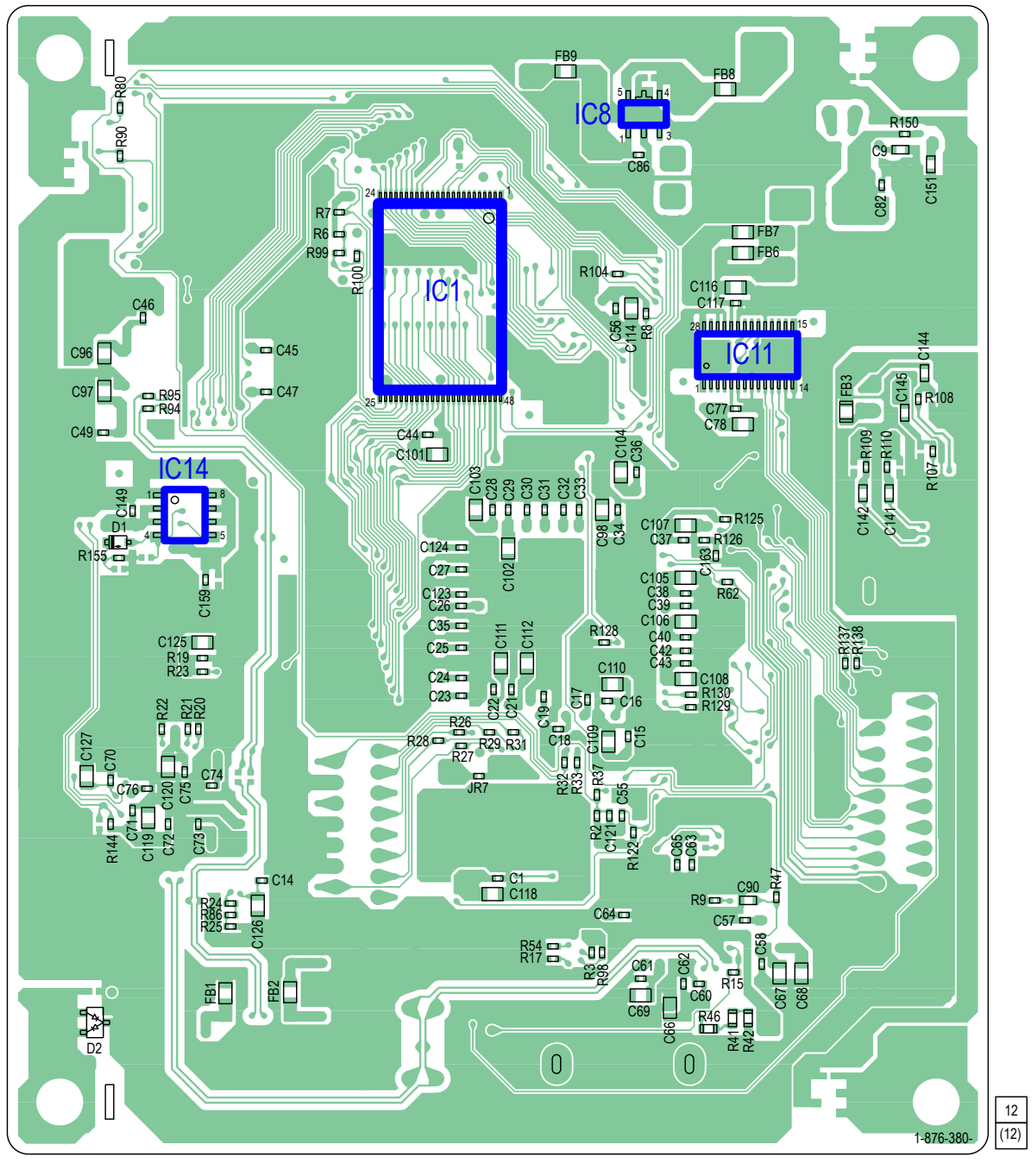
6-11. PRINTED WIRING BOARD - USB MICOM Board -

• See page 25 for Circuit Boards Location. • : Uses unleaded solder.

【USB MICOM BOARD】(COMPONENT SIDE)



【USB MICOM BOARD】(CONDUCTOR SIDE)

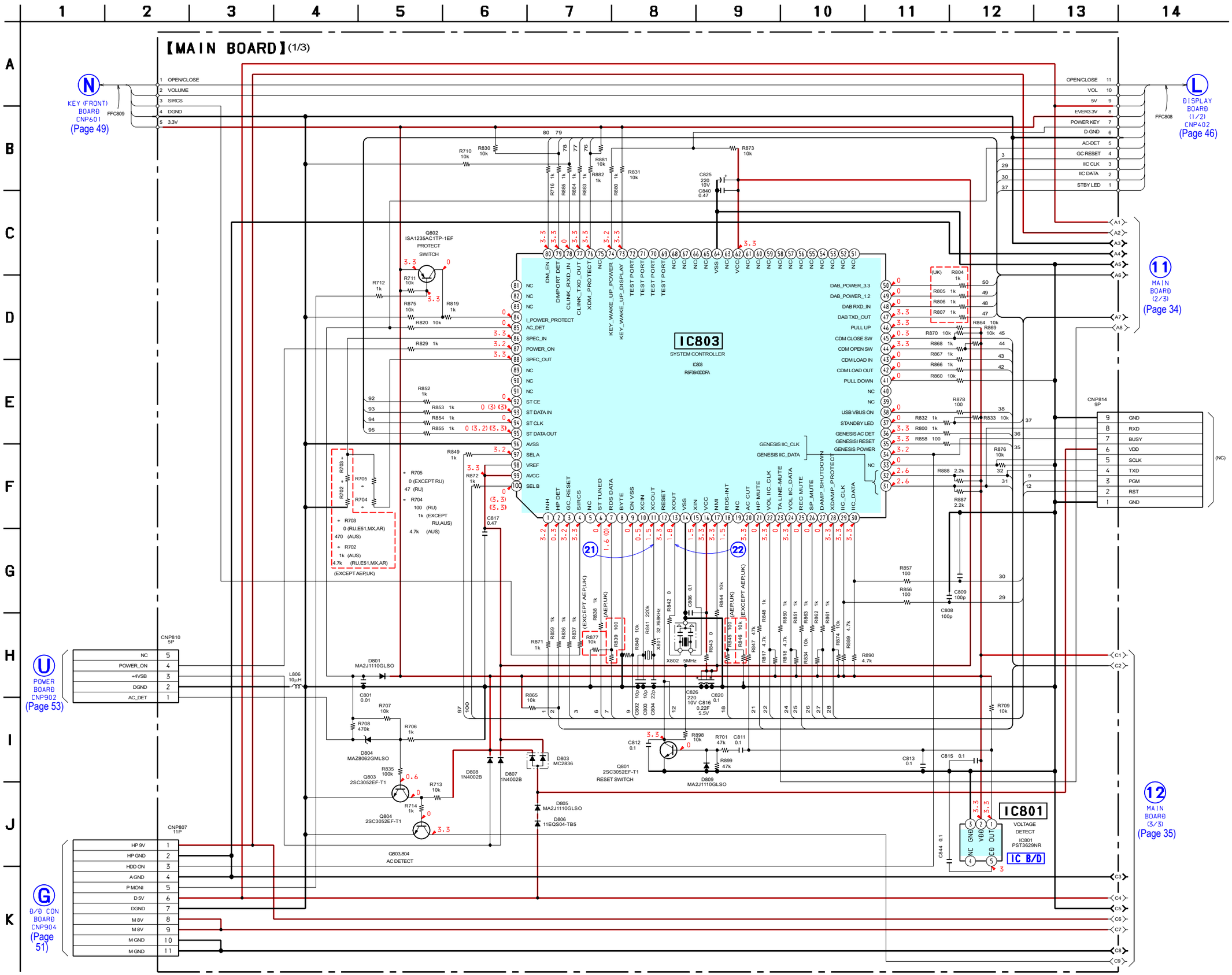


• **Semiconductor Location**

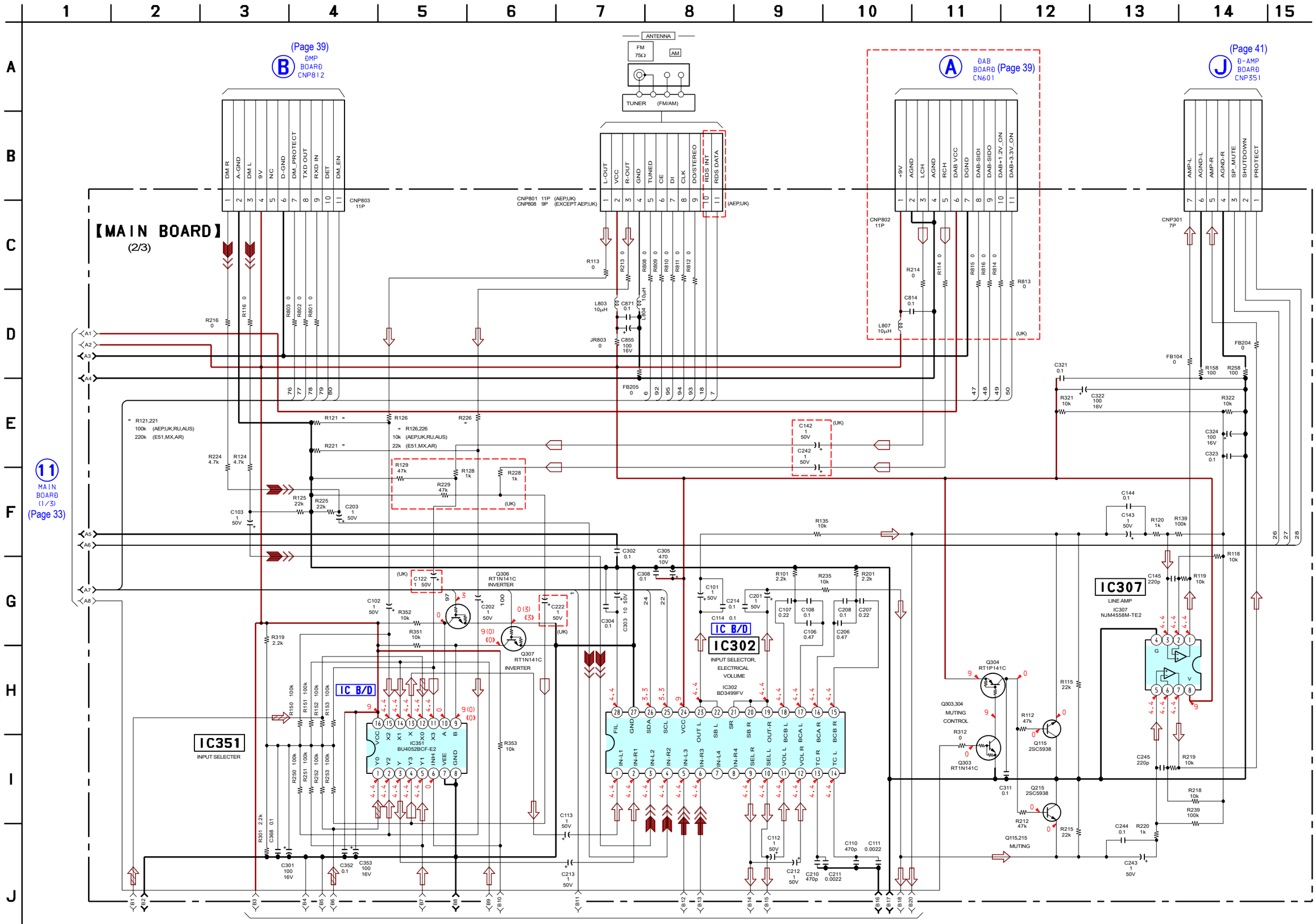
Ref. No.	Location	Ref. No.	Location
D1	C-6	IC7	A-5
D2	E-7	IC8	A-8
		IC9	D-2
IC1	B-7	IC10	D-3
IC2	C-3	IC11	B-8
IC3	B-3	IC12	C-2
IC4	B-4	IC13	D-4
IC5	A-2	IC14	C-6
IC6	A-2		

Note: IC1, IC5 and IC13 on the USB MICOM board cannot exchange with single. When IC1, IC5 and IC13 on the USB MICOM board are damaged, exchange the entire mounted board.

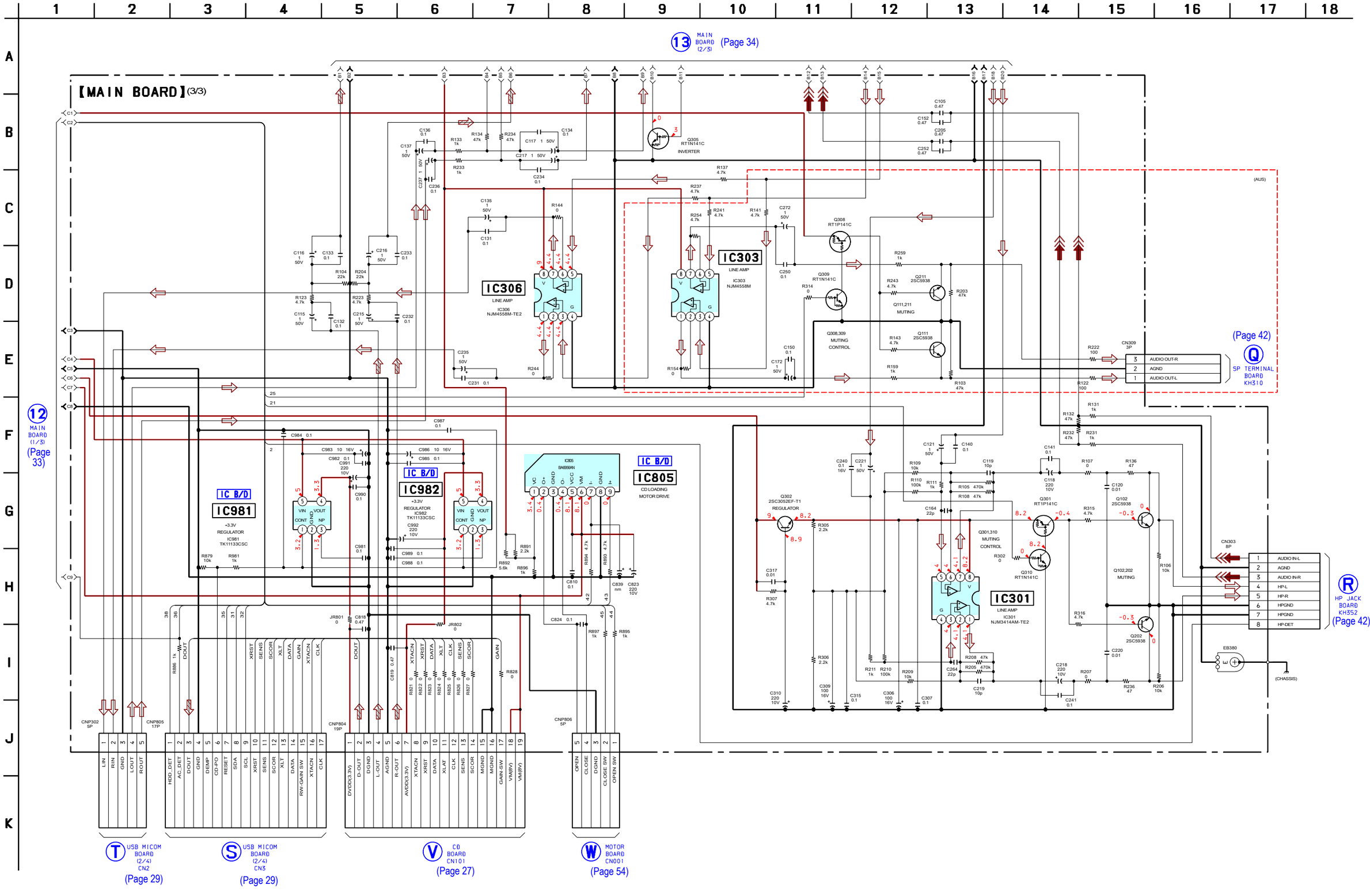
6-12. SCHEMATIC DIAGRAM - MAIN Board (1/3) - • See page 43 for waveforms. • See page 54 for IC Block Diagrams. • See page 64 for IC Pin Function Description.



6-13. SCHEMATIC DIAGRAM - MAIN Board (2/3) - • See page 54 for IC Block Diagrams.



6-14. SCHEMATIC DIAGRAM - MAIN Board (3/3) - • See page 54 for IC Block Diagrams.



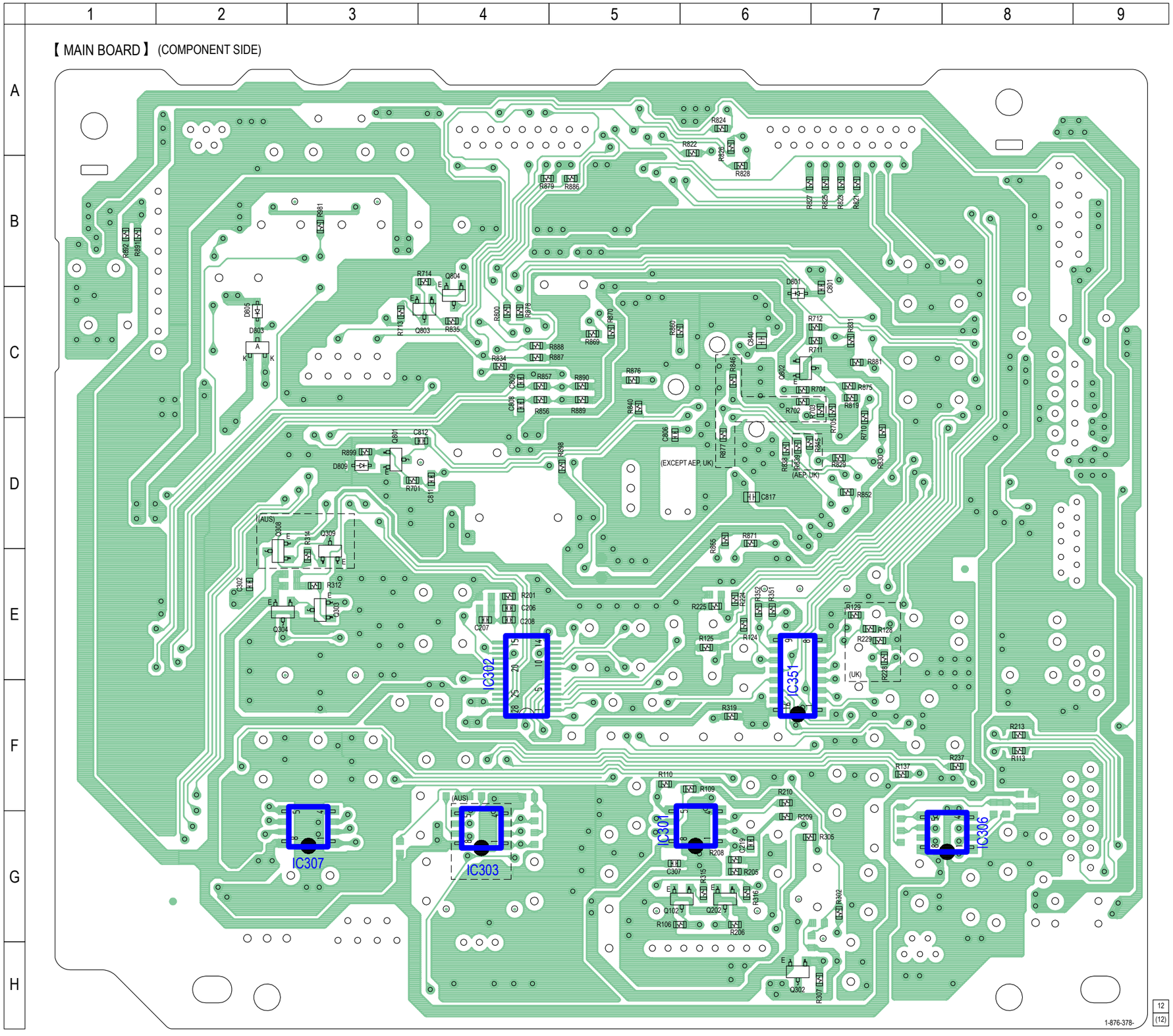
- **Semiconductor Location**

Ref. No.	Location
D801	C-6
D803	C-2
D805	C-2
D809	D-3
IC301	G-6
IC302	E-4
IC303	G-4
IC306	G-8
IC307	G-3
IC351	E-6
Q102	G-6
Q202	G-6
Q302	H-6
Q303	E-3
Q304	E-2
Q308	E-2
Q309	E-3
Q801	D-3
Q802	C-6
Q803	C-4
Q804	C-4

6-15. PRINTED WIRING BOARD - MAIN Board (Component Side) -

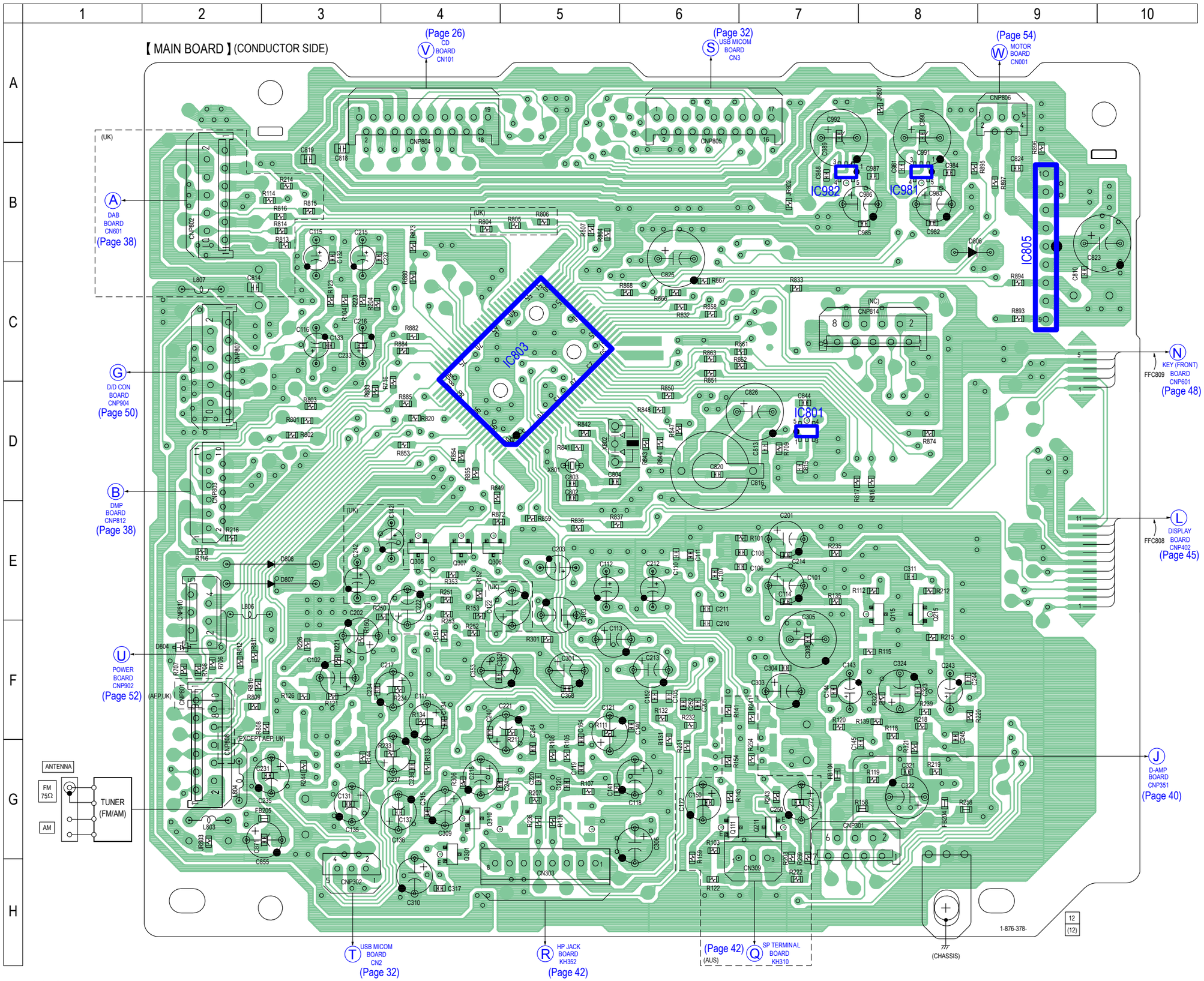
• See page 25 for Circuit Boards Location. • : Uses unleaded solder.

【 MAIN BOARD 】 (COMPONENT SIDE)



6-16. PRINTED WIRING BOARD - MAIN Board (Conductor Side) -

• See page 25 for Circuit Boards Location. • : Uses unleaded solder.



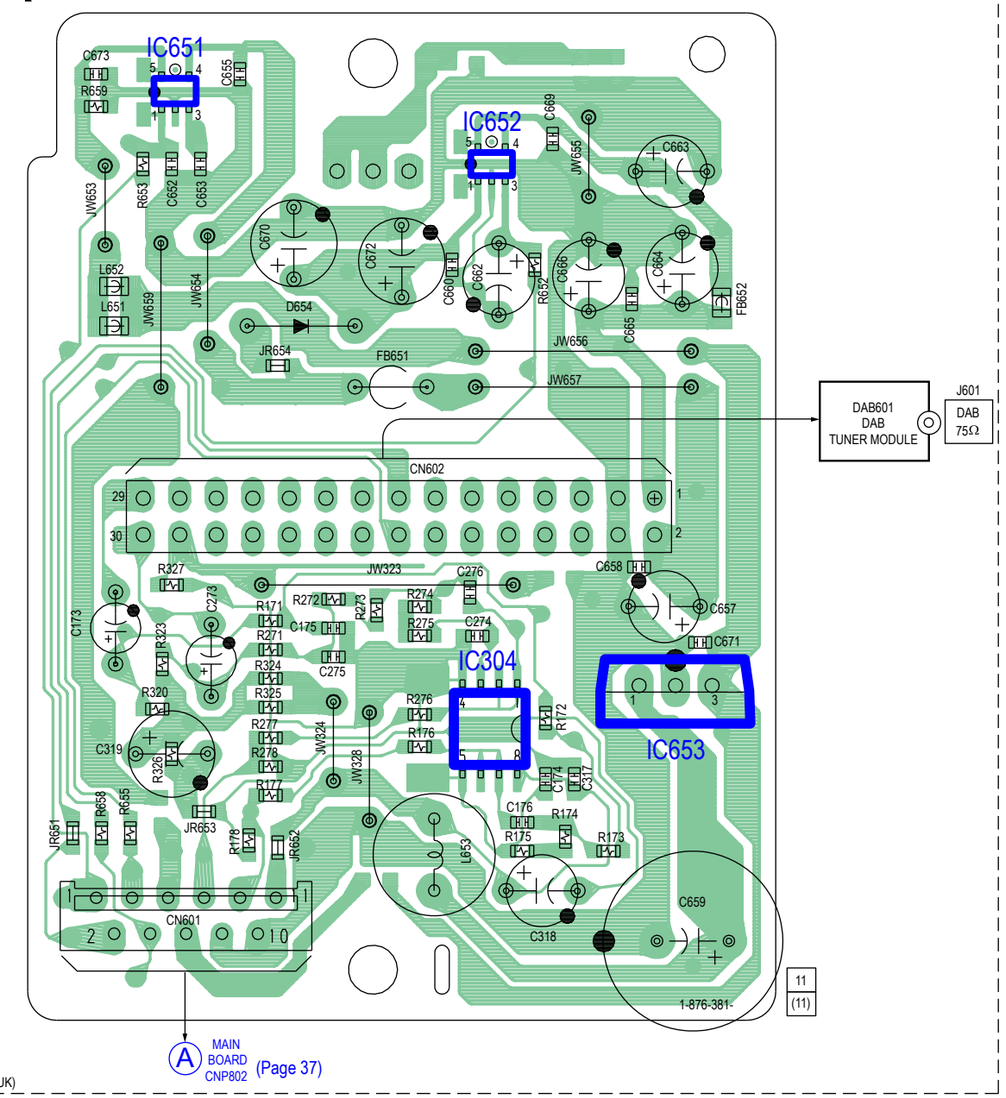
• **Semiconductor Location**

Ref. No.	Location
D804	F-2
D806	B-8
D807	E-3
D808	E-3
IC801	D-7
IC803	C-5
IC805	B-9
IC981	B-8
IC982	B-7
Q111	G-6
Q115	E-8
Q211	G-7
Q215	E-8
Q301	G-4
Q305	E-4
Q306	E-4
Q307	E-4
Q310	G-4

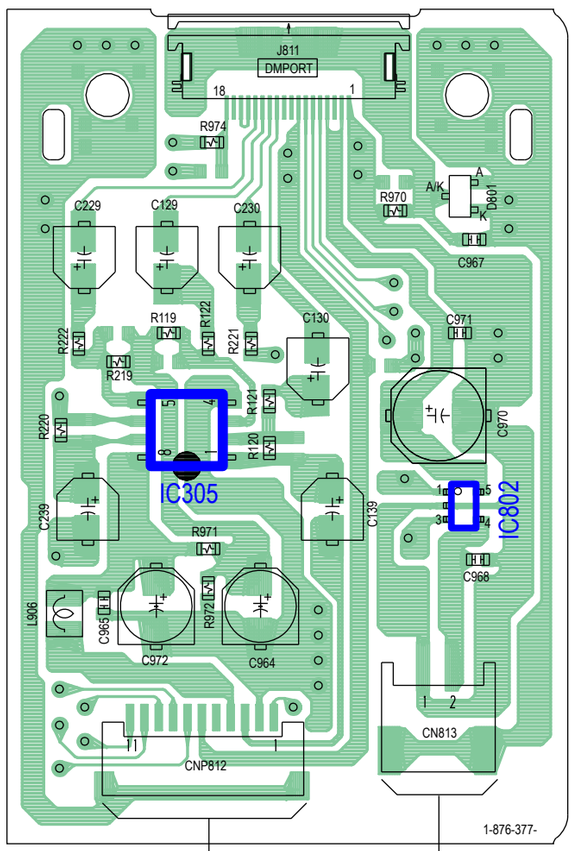
6-17. PRINTED WIRING BOARDS - DAB, DMP Section -

• See page 25 for Circuit Boards Location. • : Uses unleaded solder.

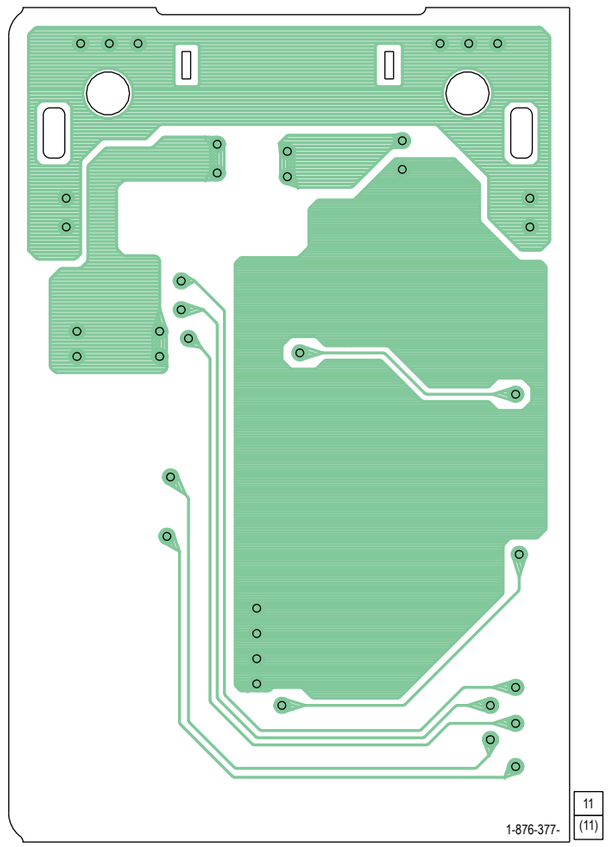
【DAB BOARD】



【DMP BOARD】(SIDE A)



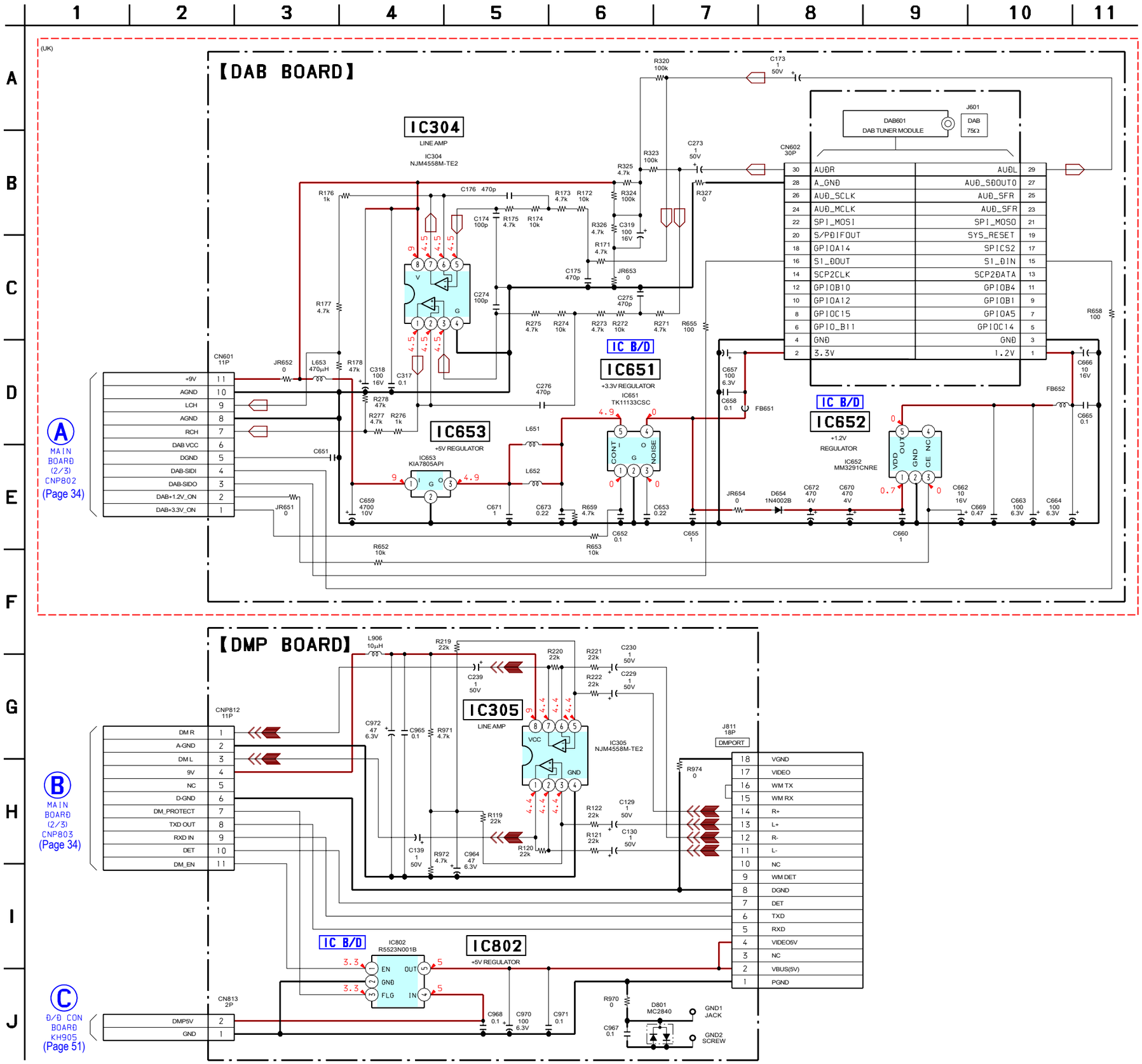
【DMP BOARD】(SIDE B)



- **Semiconductor Location**

Ref. No.	Location
D351	D-2
IC352	D-3
Q151	B-5
Q152	B-5
Q251	B-5
Q252	B-5
Q352	D-2
Q353	D-2
Q354	D-1
Q355	B-4

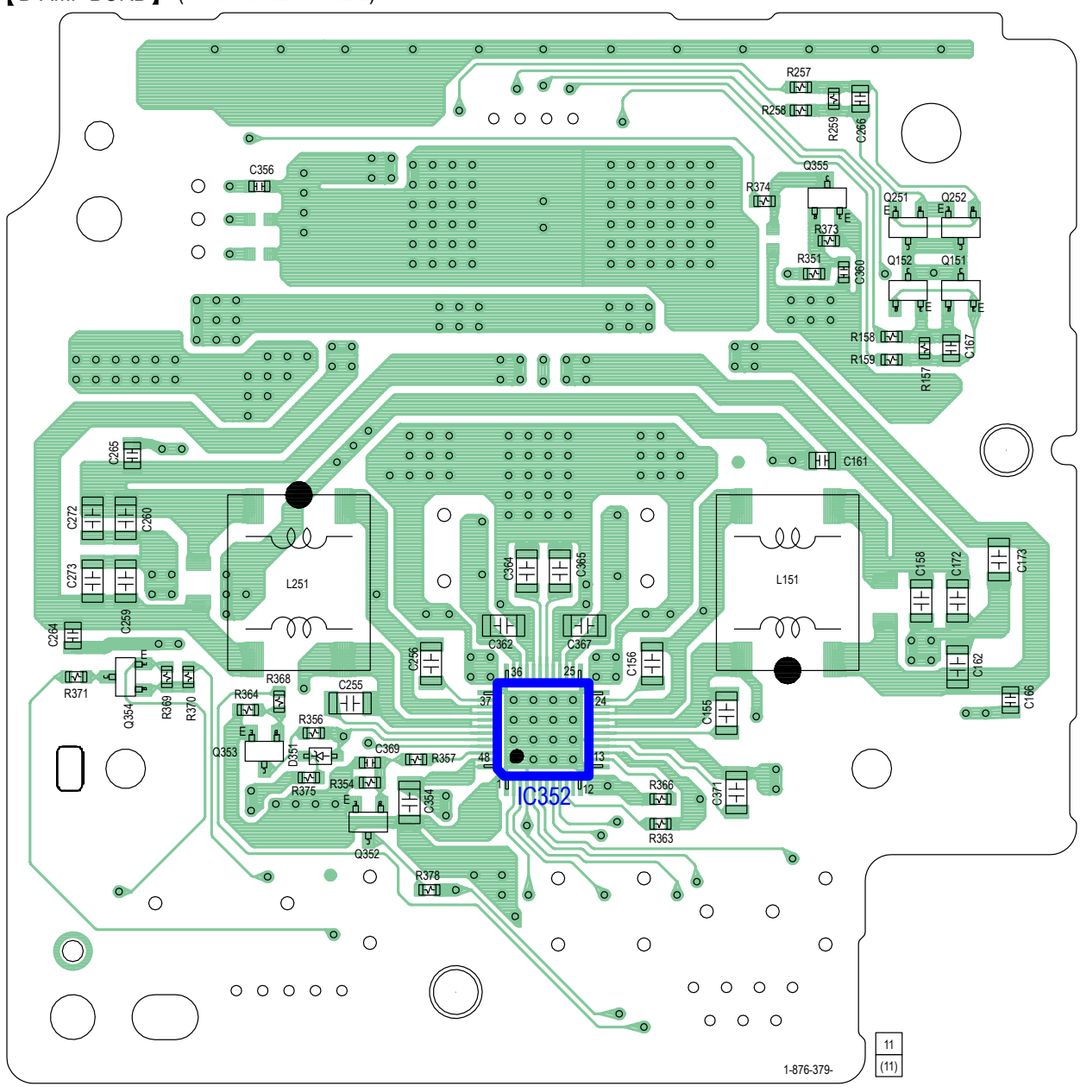
6-18. SCHEMATIC DIAGRAM - DAB, DMP Section - • See page 54 for IC Block Diagrams.



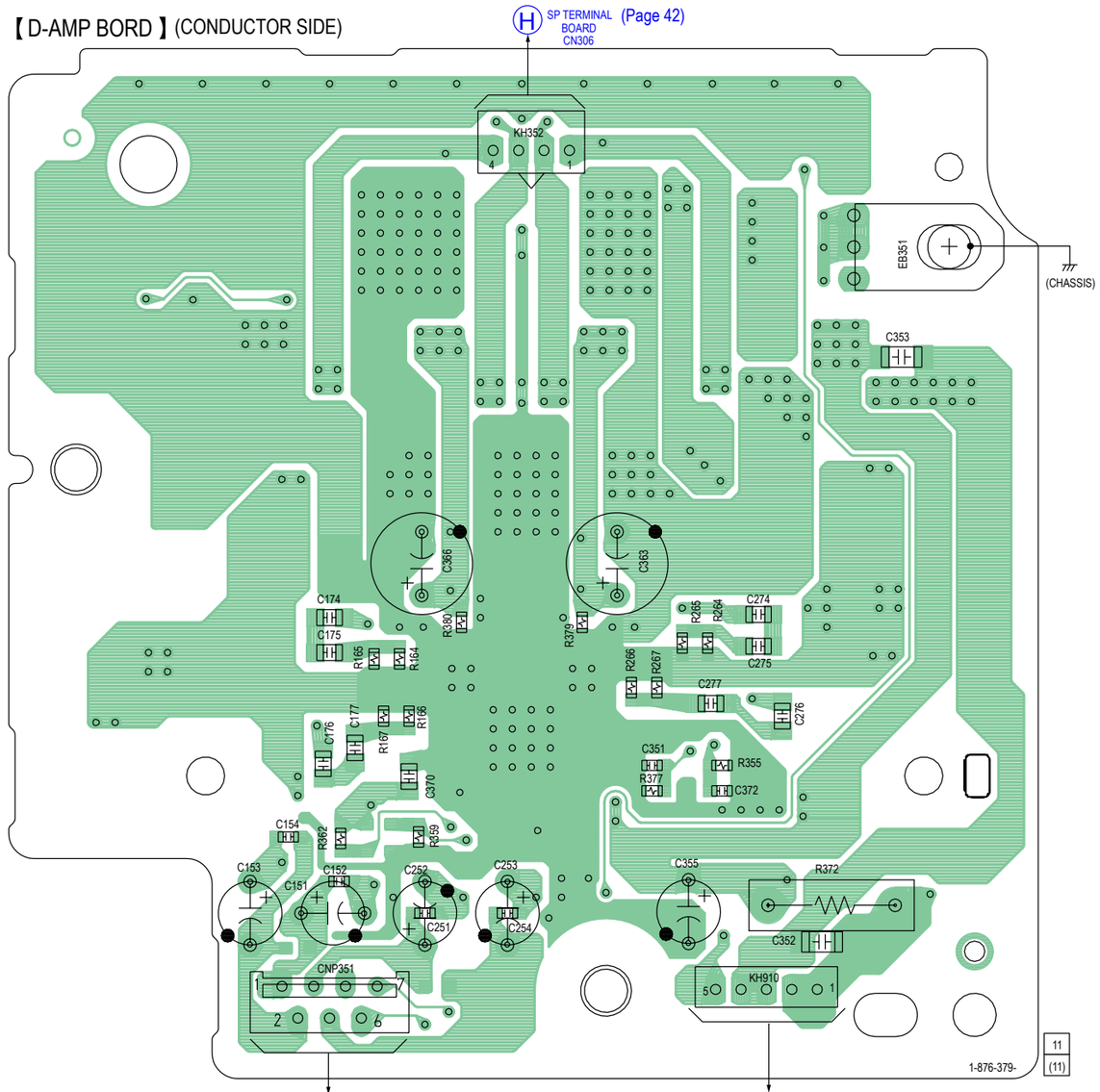
6-19. PRINTED WIRING BOARD - D-AMP Board -

• See page 25 for Circuit Boards Location. • : Uses unleaded solder.

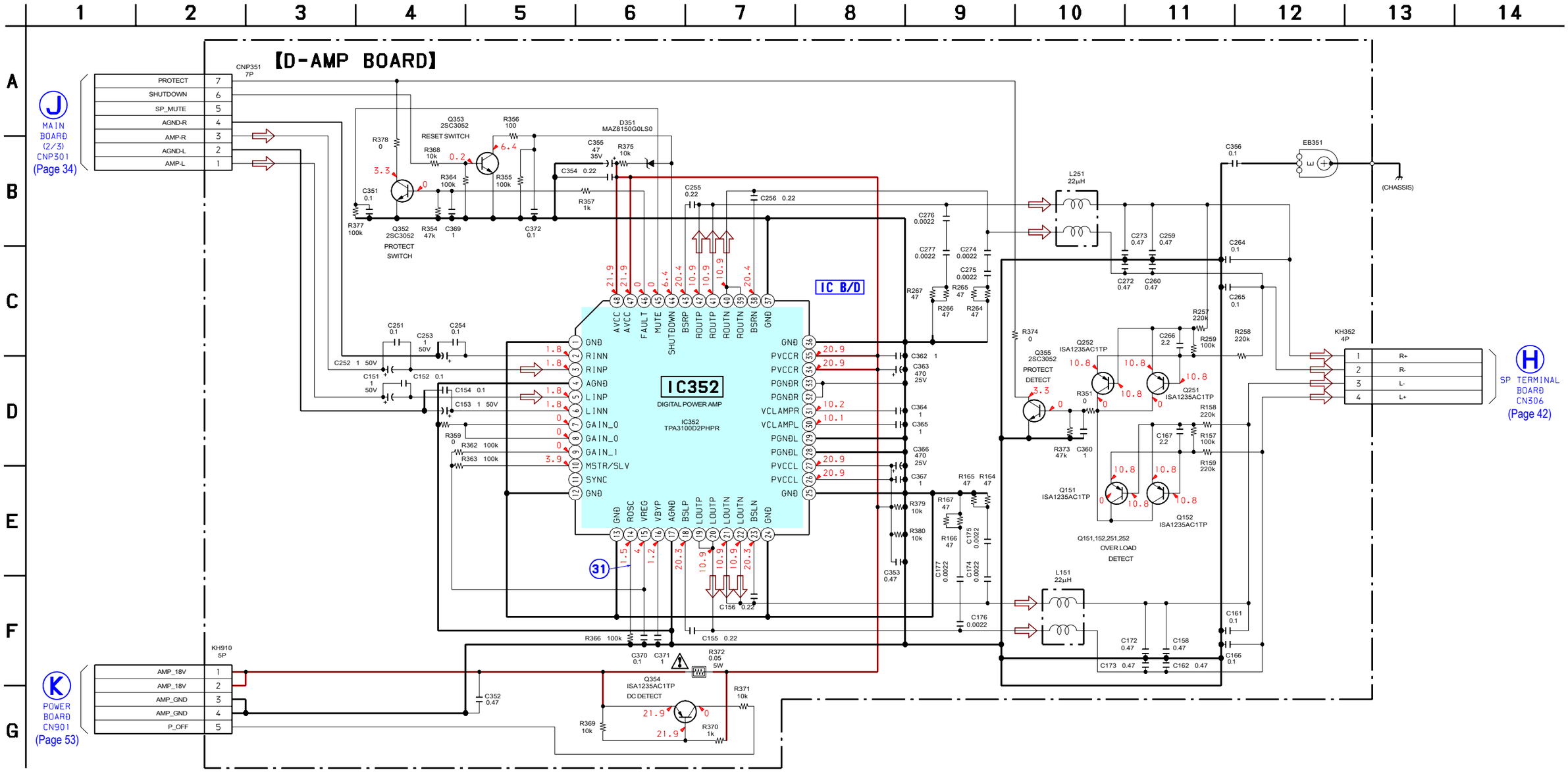
【D-AMP BORD】(COMPONENT SIDE)



【D-AMP BORD】(CONDUCTOR SIDE)

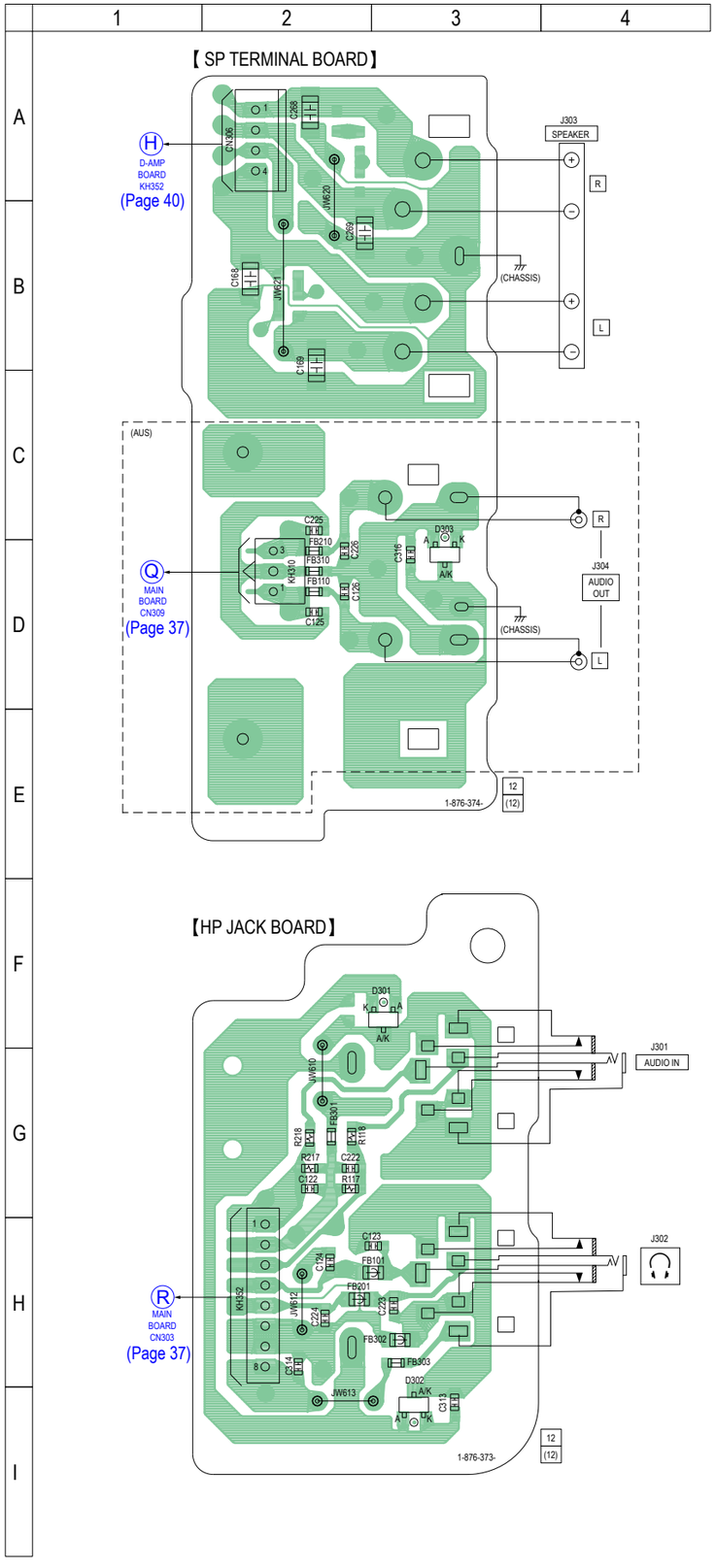


6-20. SCHEMATIC DIAGRAM - D-AMP Board - • See page 43 for waveforms. • See page 54 for IC Block Diagrams.

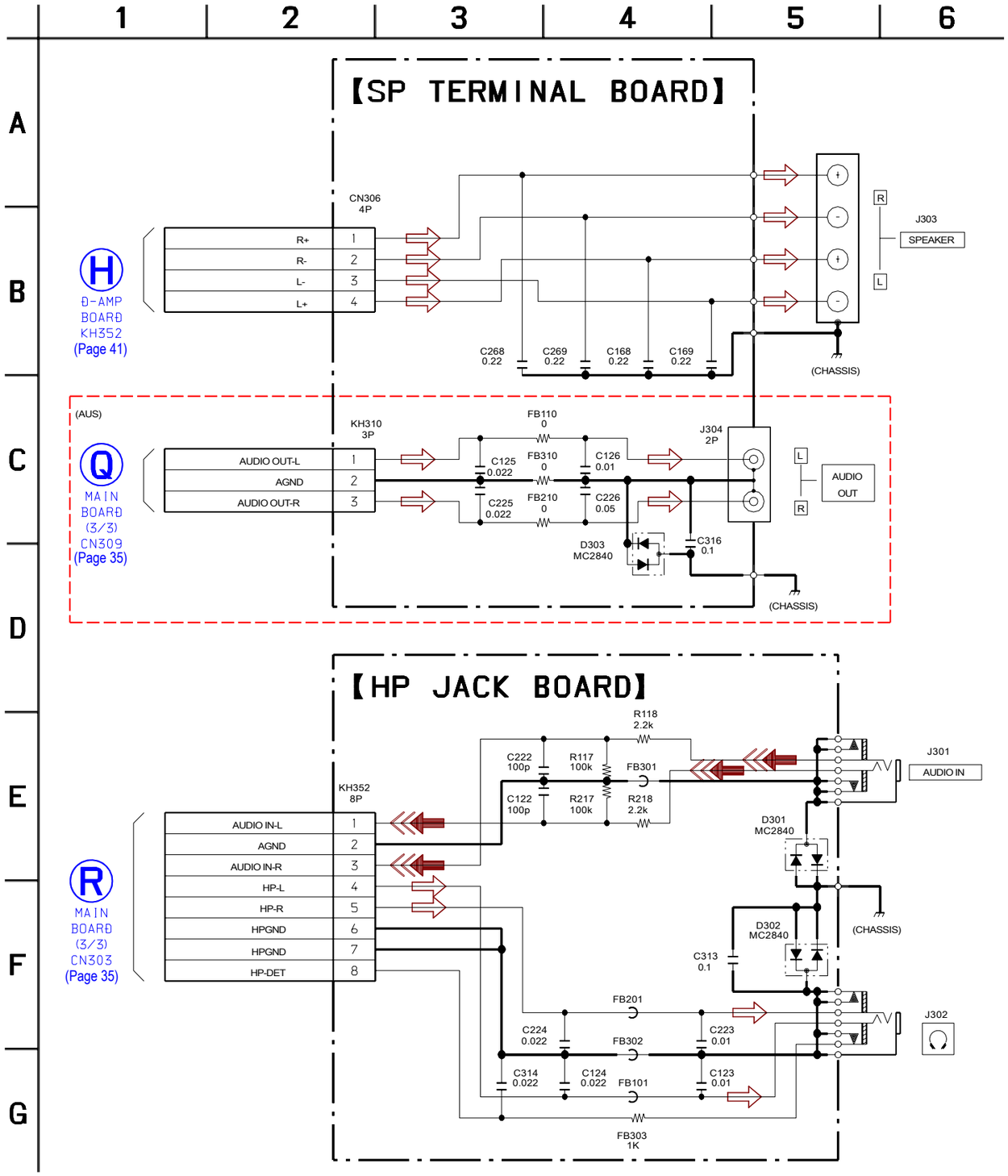


6-21. PRINTED WIRING BOARDS - SPEAKER Section -

• See page 25 for Circuit Boards Location. • : Uses unleaded solder.



6-22. SCHEMATIC DIAGRAM - SPEAKER Section -



• **Waveforms**

– CD Board –

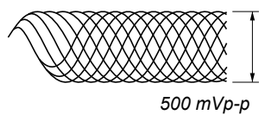
① IC201 ㉑ (TEI)
(CD play mode)

100 mV/DIV, 500 ns/DIV

② IC201 ㉓ (FEI)
(CD play mode)

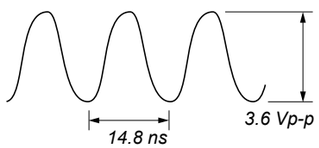
100 mV/DIV, 500 ns/DIV

③ IC201 ㊶ (RFACO)
(CD play mode)



200 mV/DIV, 500 ns/DIV

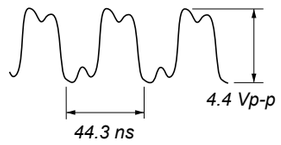
④ IC201 ㊼ (XTAO)
(CD play mode)



1 V/DIV, 5 ns/DIV

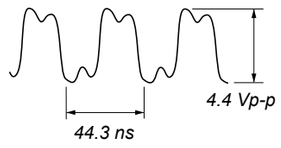
– USB MICOM Board –

⑪ IC10 ① (1A)
(USB play mode)



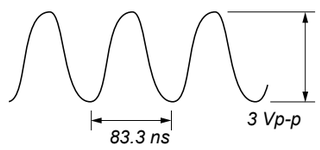
2 V/DIV, 20 ns/DIV

⑫ IC2 ⑰ (CLKIN)
(USB play mode)



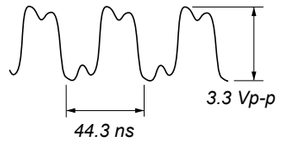
2 V/DIV, 20 ns/DIV

⑬ IC4 ㉛ (XO)
(USB play mode)



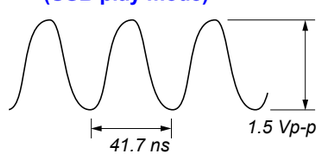
1 V/DIV, 50 ns/DIV

⑭ IC12 ⑪ (SYSCK)
(USB play mode)



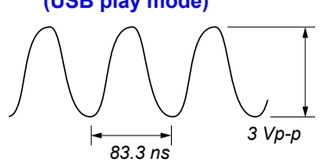
1 V/DIV, 20 ns/DIV

⑮ IC13 ㉜ (XTAL2)
(USB play mode)



500 mV/DIV, 20 ns/DIV

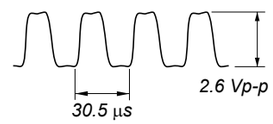
⑯ IC9 ⑱ (XTALO)
(USB play mode)



1 V/DIV, 50 ns/DIV

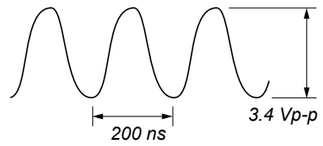
– MAIN Board –

㉑ IC803 ⑪ (XCOUT)



1 V/DIV, 10 µs/DIV

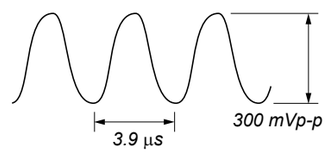
㉒ IC803 ⑬ (XOUT)



1 V/DIV, 100 ns/DIV

– D-AMP Board –

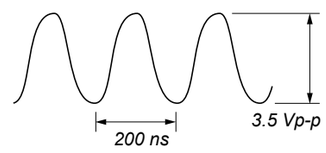
㉛ IC352 ⑭ (ROSC)



100 mV/DIV, 2 µs/DIV

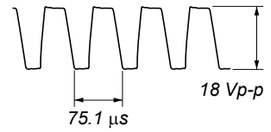
– DISPLAY Board –

㊶ IC403 ⑬ (XOUT)



1 V/DIV, 100 ns/DIV

㊷ IC402 ①

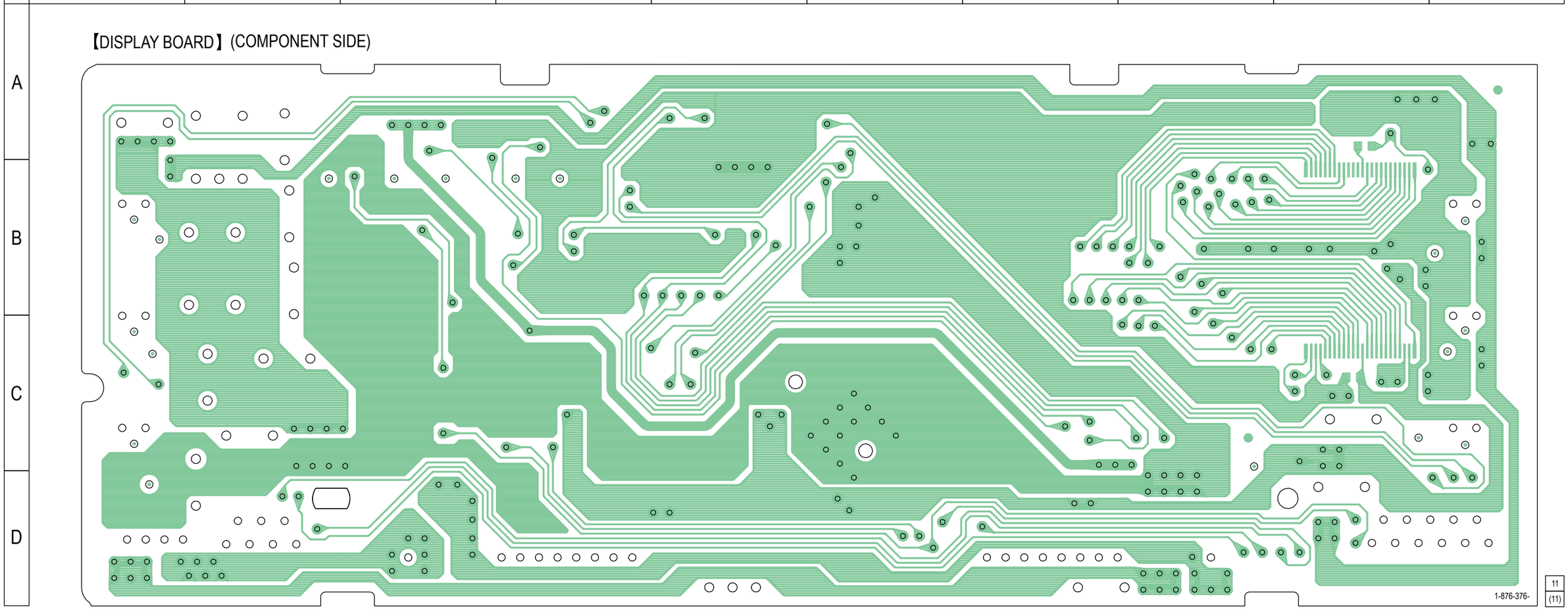


10 V/DIV, 20 µs/DIV

6-23. PRINTED WIRING BOARD - DISPLAY Board (Component Side) -

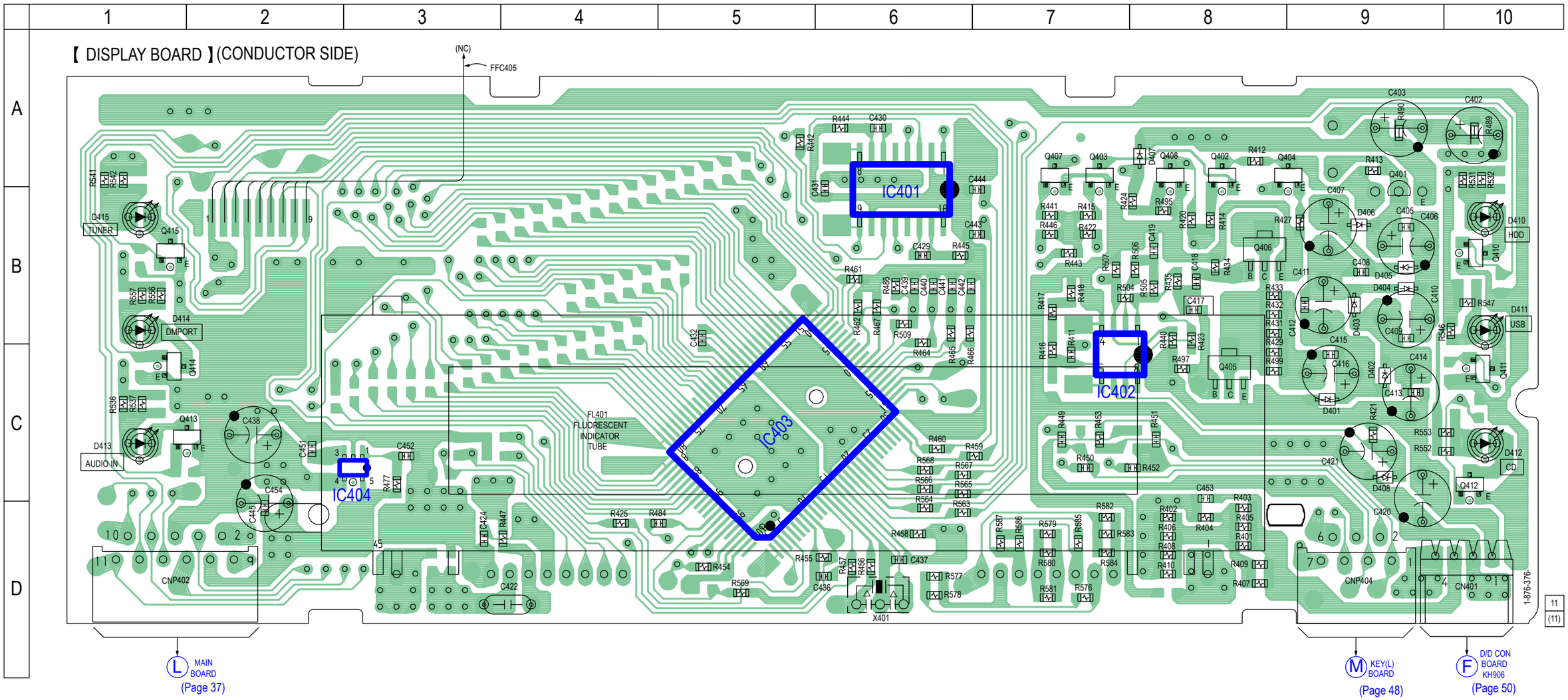
• See page 25 for Circuit Boards Location. • : Uses unleaded solder.

【DISPLAY BOARD】(COMPONENT SIDE)



6-24. PRINTED WIRING BOARD - DISPLAY Board (Conductor Side) -

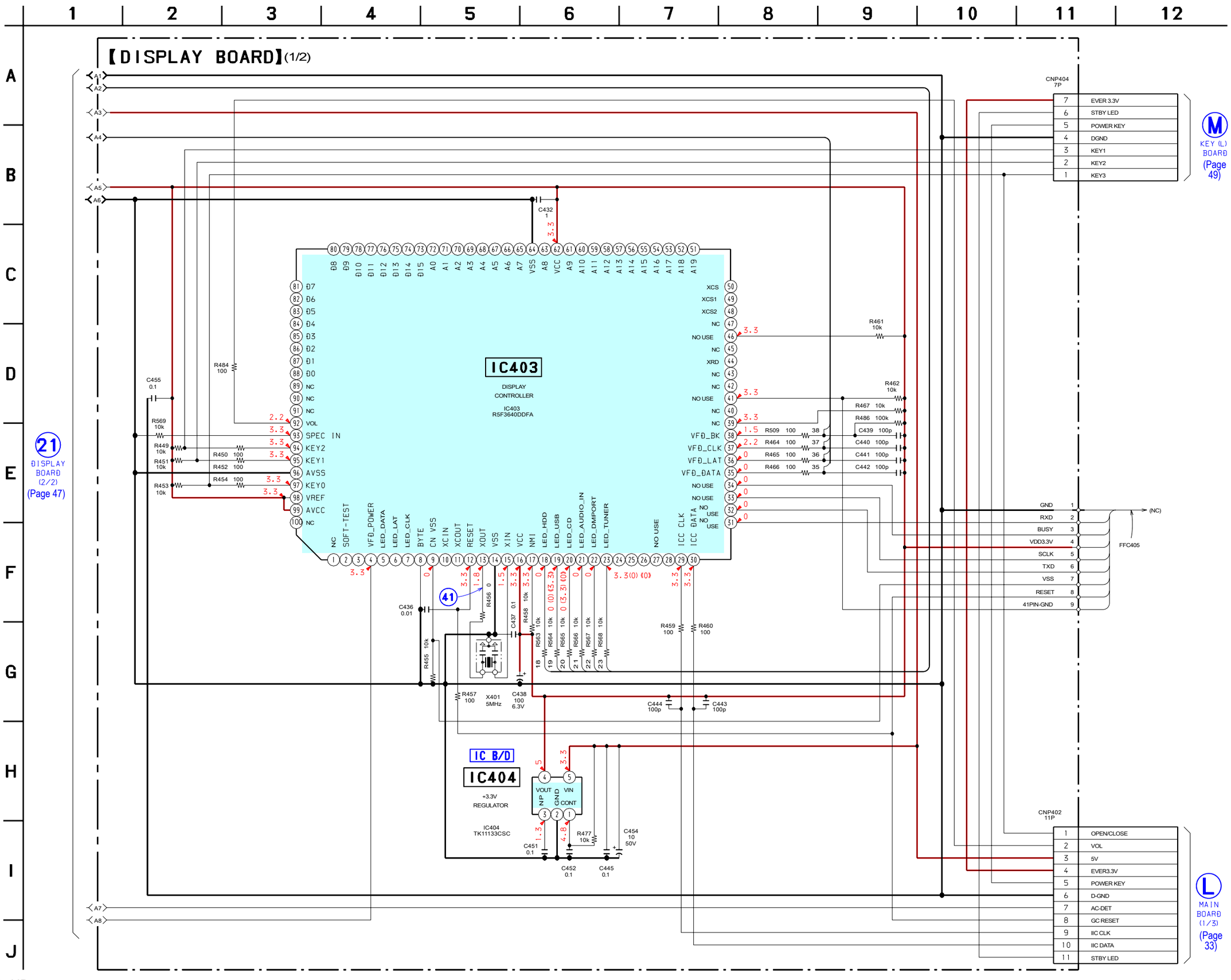
• See page 25 for Circuit Boards Location. • : Uses unleaded solder.



• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D401	C-9	IC403	C-5
D402	C-9	IC404	C-3
D403	B-9		
D404	B-9	Q401	B-9
D405	B-9	Q402	A-8
D406	B-9	Q403	A-7
D407	A-8	Q404	A-9
D408	C-9	Q405	C-8
D410	B-10	Q406	B-8
D411	B-10	Q407	A-7
D412	C-10	Q408	A-8
D413	C-1	Q410	B-10
D414	B-1	Q411	C-10
D415	B-1	Q412	C-10
		Q413	C-2
IC401	B-6	Q414	C-1
IC402	C-7	Q415	B-1

6-25. SCHEMATIC DIAGRAM - DISPLAY Board (1/2) - • See page 43 for waveforms. • See page 54 for IC Block Diagrams. • See page 64 for IC Pin Function Description.



6-26. SCHEMATIC DIAGRAM - DISPLAY Board (2/2) - • See page 43 for waveforms. • See page 54 for IC Block Diagrams.

【DISPLAY BOARD】
(2/2)

FL401
VACUUM FLUORESCENT DISPLAY

IC401
REGULATOR CONTROL
IC401
SN74LV123ANSR

IC402
REGULATOR
IC402
NJM4558M-TE2

Q401-408
REGULATOR

CN401
4P

1	FL_18V
2	FL_GND
3	FI_GND
4	FI_5V

21 Ð/BOARÐ (1/2) (Page 46)

F Ð/Ð CON BOARÐ KH906 (Page 51)

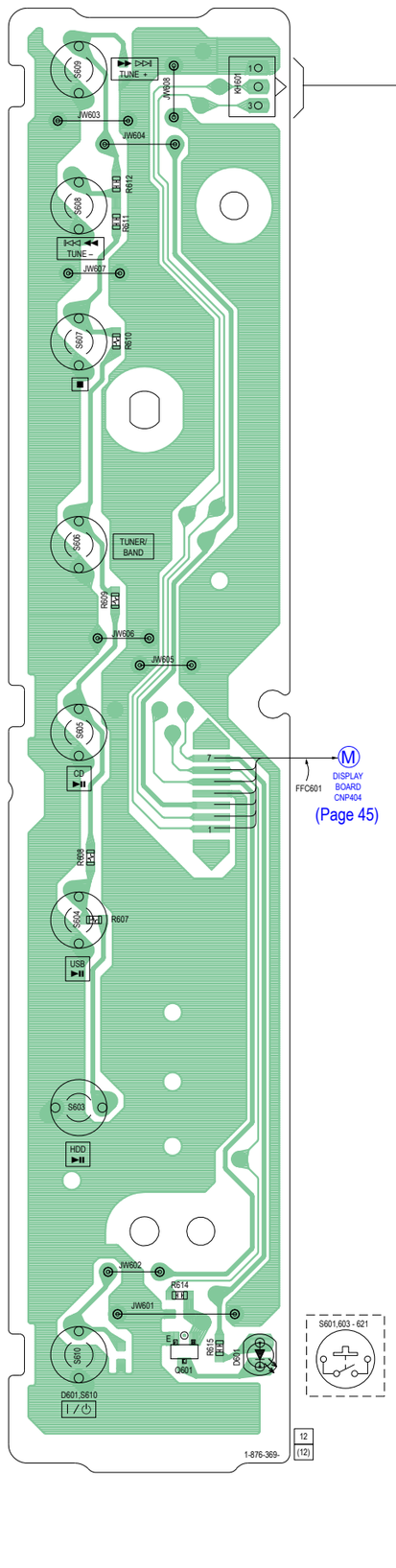
6-27. PRINTED WIRING BOARDS - PANEL Section -

• See page 25 for Circuit Boards Location. • : Uses unleaded solder.

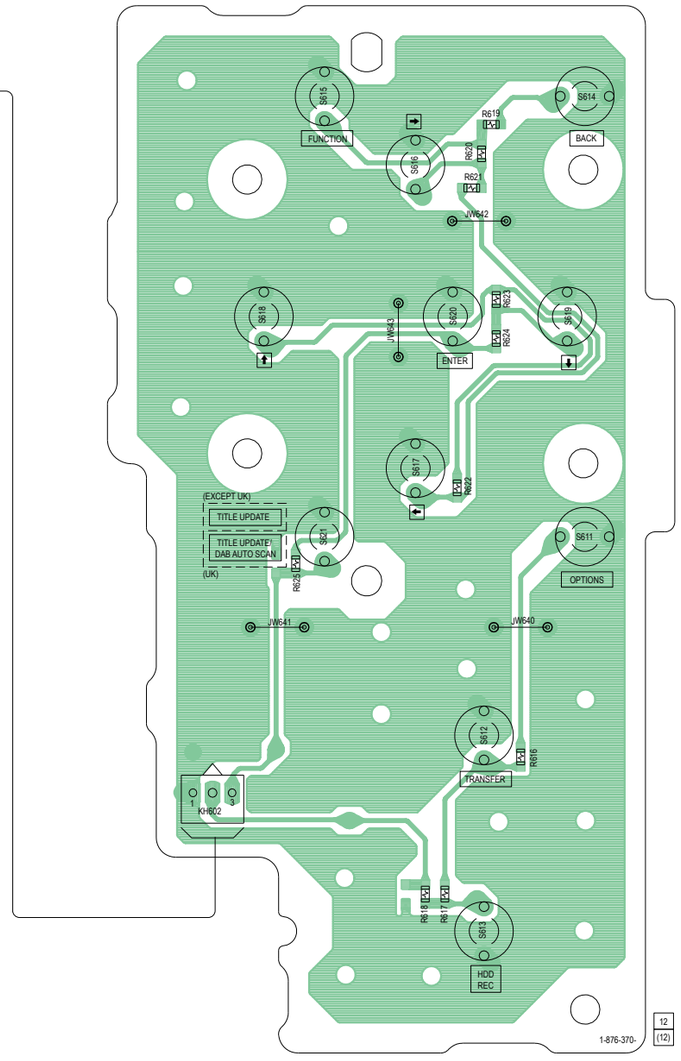
- **Semiconductor Location**

Ref. No.	Location
D601	I-2
D851	H-6
D852	H-6
D853	H-5
D854	J-6
IC601	H-11
Q601	I-2

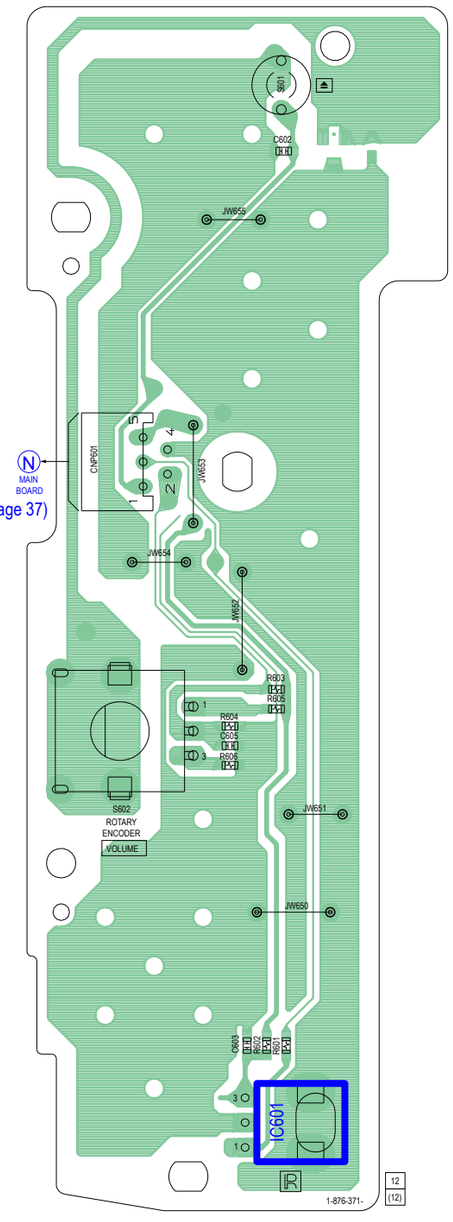
【KEY (L) BOARD】



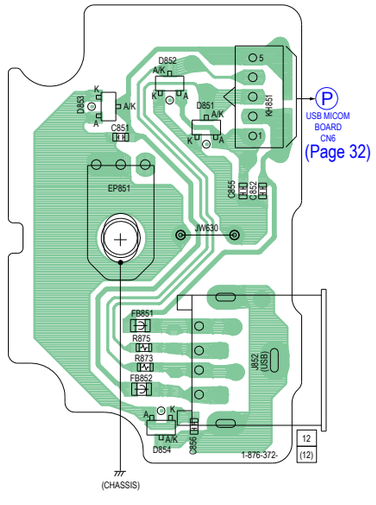
【KEY (R) BOARD】



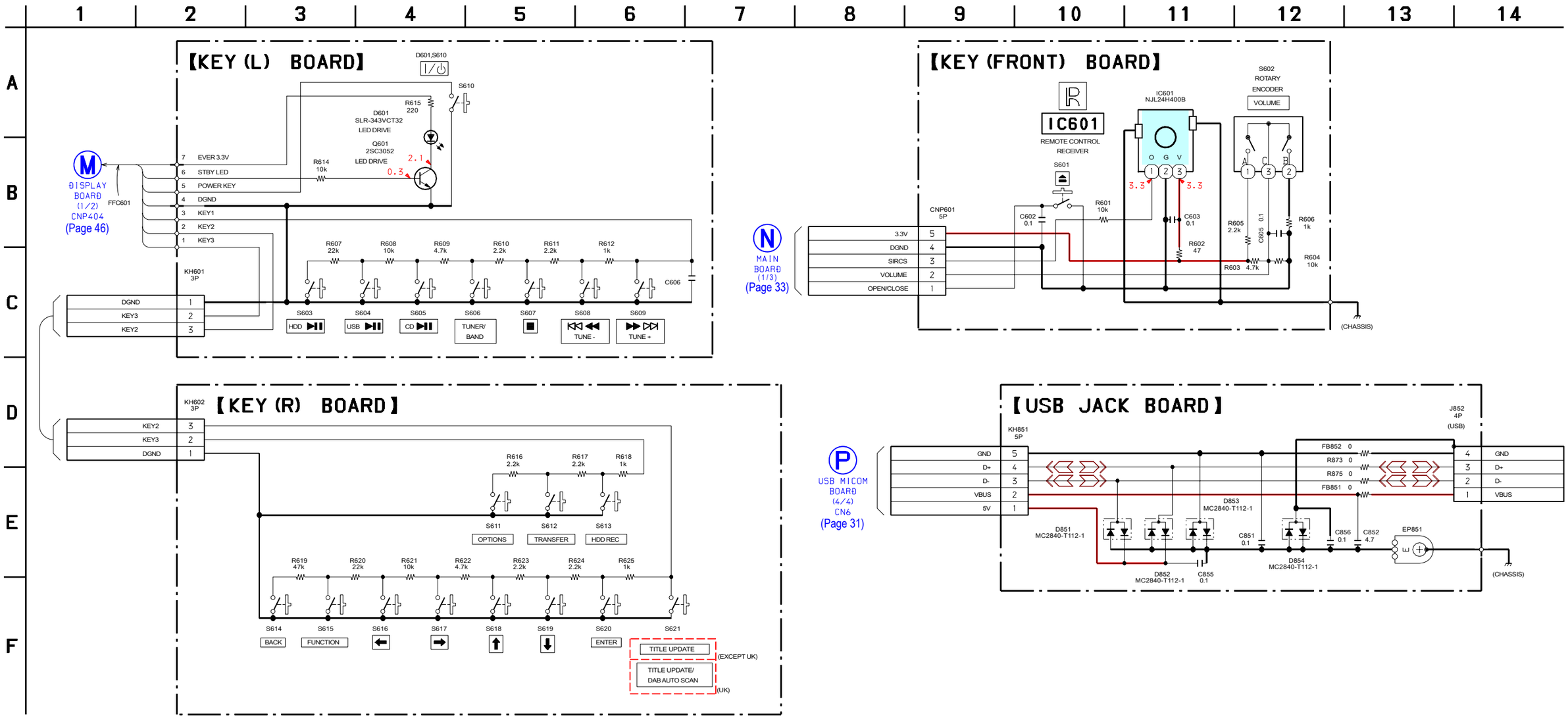
【KEY (FRONT) BOARD】



【USB JACK BOARD】



6-28. SCHEMATIC DIAGRAM - PANEL Section -

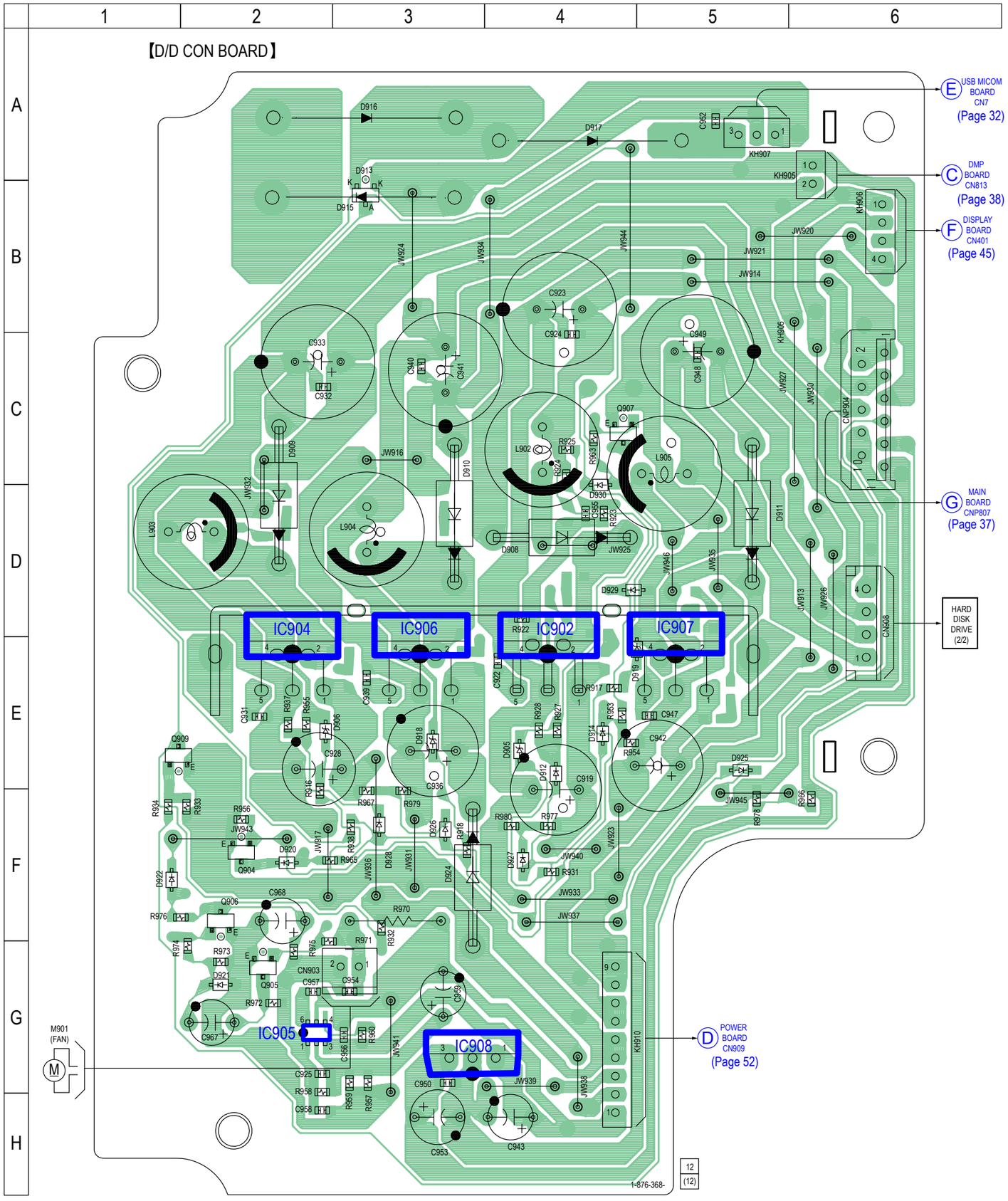


6-29. PRINTED WIRING BOARD - D/D CON Board -

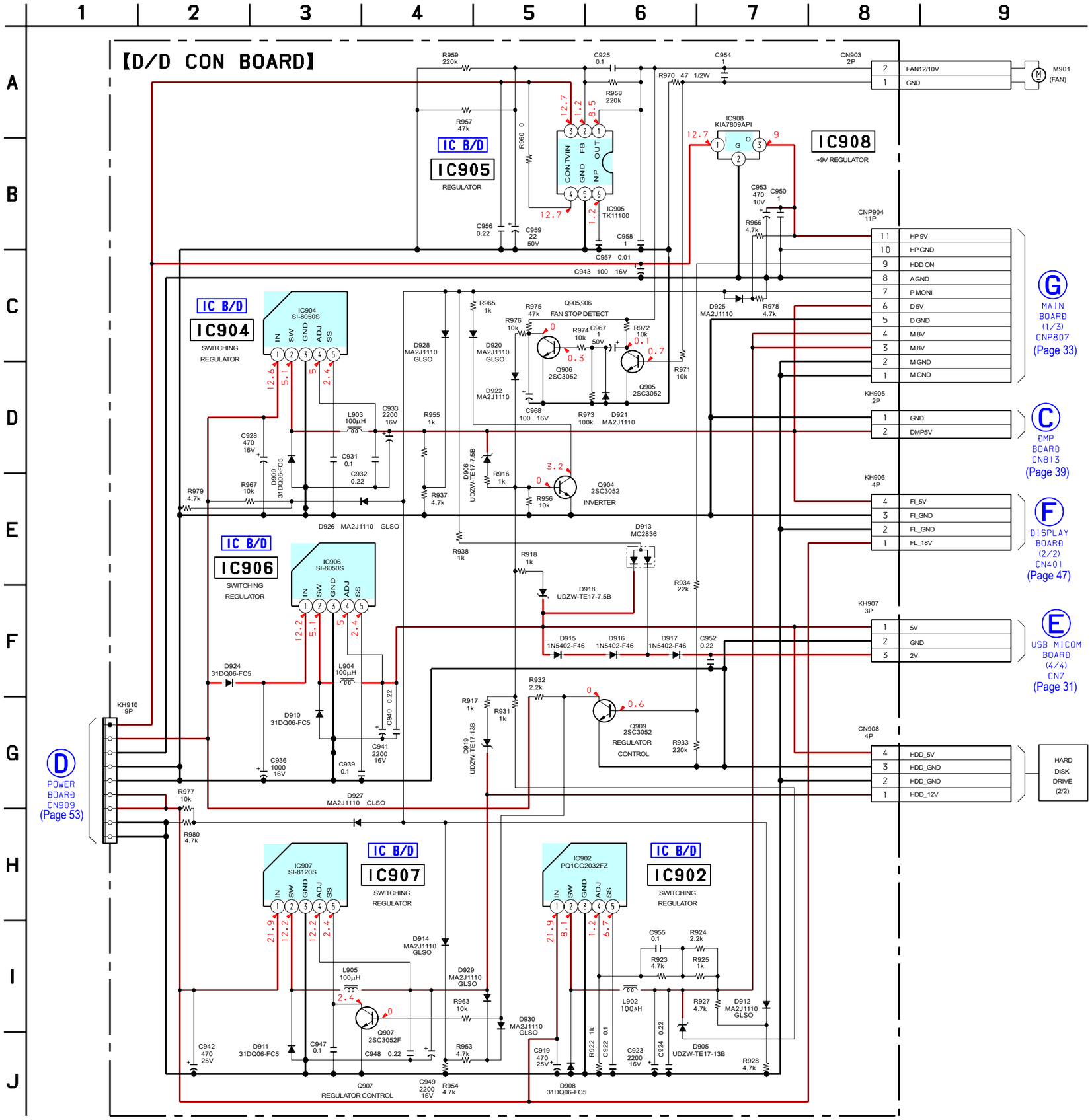
• See page 25 for Circuit Boards Location. • : Uses unleaded solder.

• **Semiconductor Location**

Ref. No.	Location
D905	E-4
D906	E-2
D908	D-4
D909	D-2
D910	D-3
D911	D-5
D912	E-4
D913	B-3
D914	E-4
D915	B-3
D916	A-3
D917	A-4
D918	E-3
D919	E-4
D920	F-2
D921	G-2
D922	F-1
D924	F-3
D925	E-5
D926	F-3
D927	F-4
D928	F-3
D929	D-4
D930	D-4
IC902	E-4
IC904	E-2
IC905	G-2
IC906	E-3
IC907	E-5
IC908	G-3
Q904	F-2
Q905	G-2
Q906	F-2
Q907	C-4
Q909	E-1

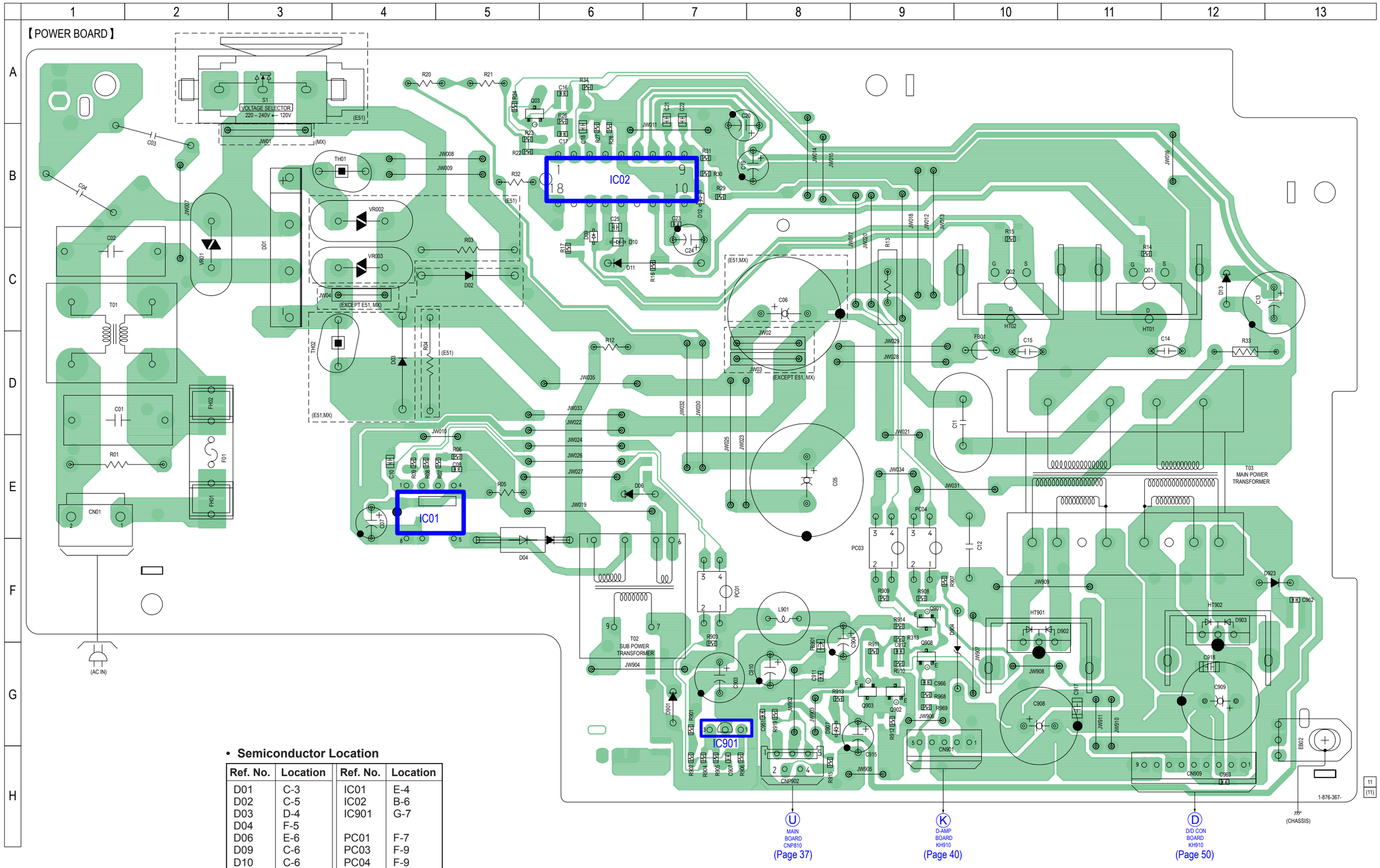


6-30. SCHEMATIC DIAGRAM - D/D CON Board - • See page 54 for IC Block Diagrams.



6-31. PRINTED WIRING BOARD - POWER Board -

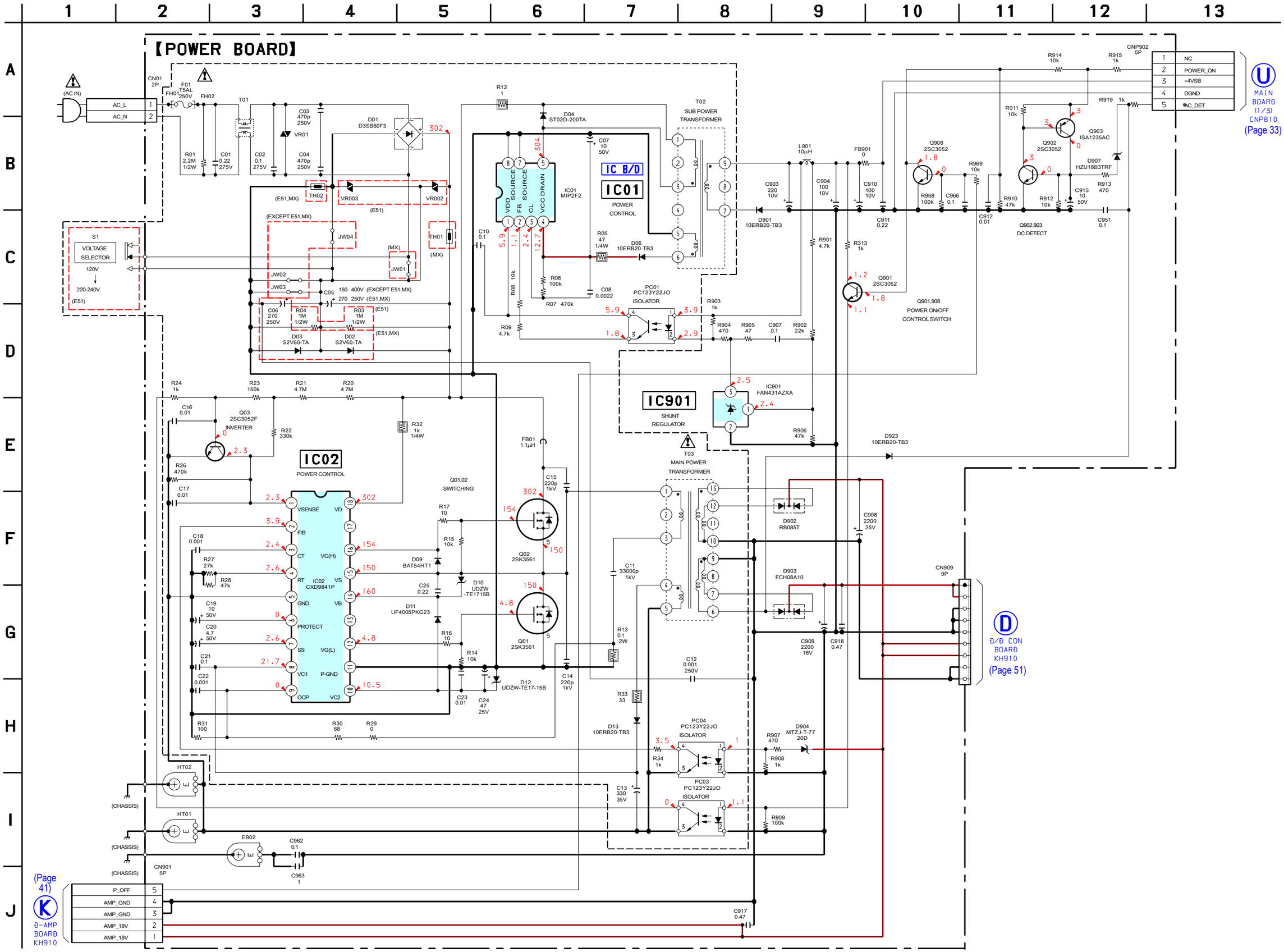
• See page 25 for Circuit Boards Location. • : Uses unleaded solder.



- **Semiconductor Location**

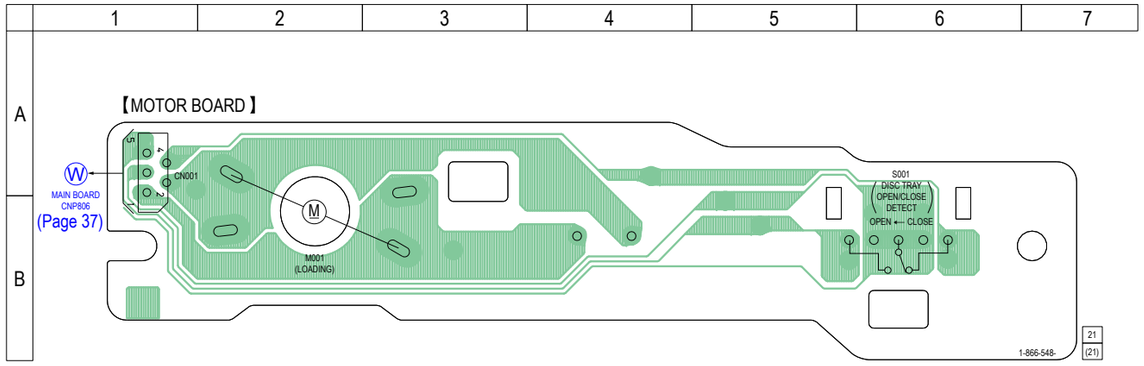
Ref. No.	Location	Ref. No.	Location
D01	C-3	IC01	E-4
D02	C-5	IC02	B-6
D03	D-4	IC901	G-7
D04	F-5		
D06	E-6	PC01	F-7
D09	C-6	PC03	F-9
D10	C-6	PC04	F-9
D11	C-6		
D12	B-7	Q01	C-11
D13	C-12	Q02	C-10
D901	G-7	Q03	A-5
D902	F-10	Q901	F-9
D903	F-12	Q902	G-9
D904	G-10	Q903	G-9
D907	G-8	Q908	G-9
D923	F-13		

6-32. SCHEMATIC DIAGRAM - POWER Board - • See page 54 for IC Block Diagrams. • See page 64 for IC Pin Function Description.

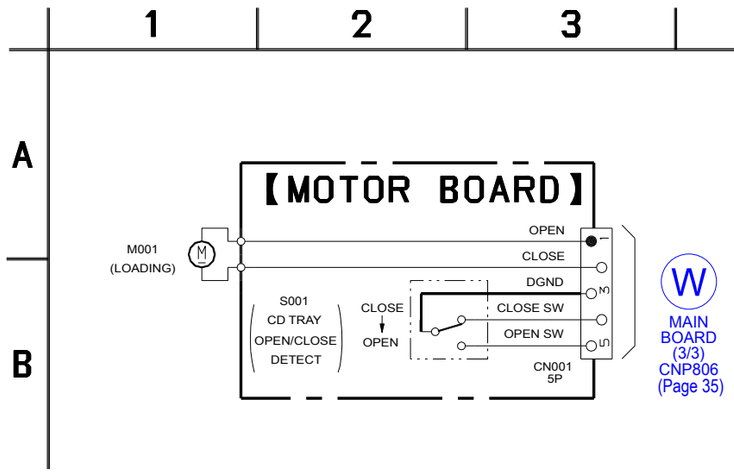


6-33. PRINTED WIRING BOARD - MOTOR Board -

• See page 25 for Circuit Boards Location. • : Uses unleaded solder.



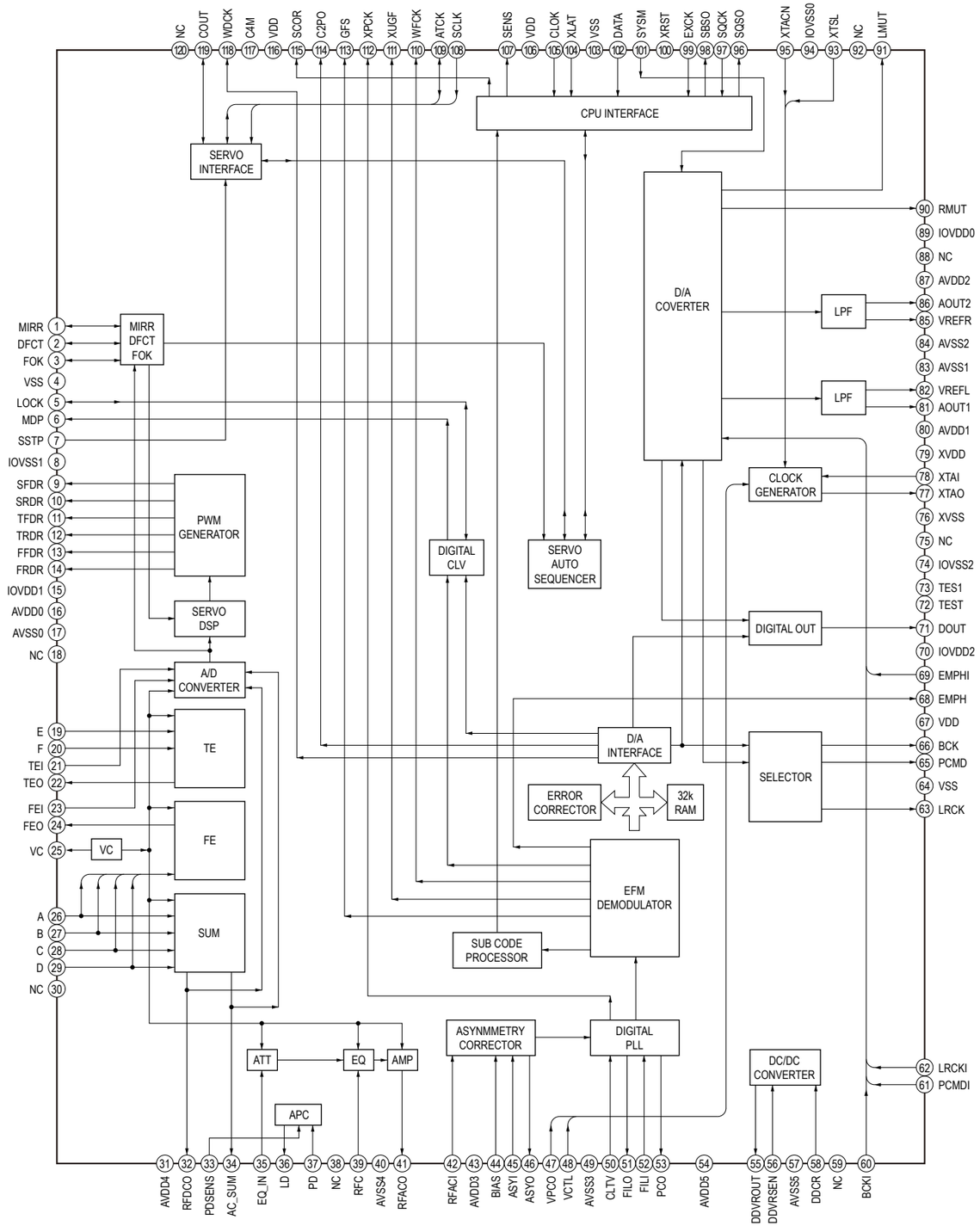
6-34. SCHEMATIC DIAGRAM - MOTOR Board -



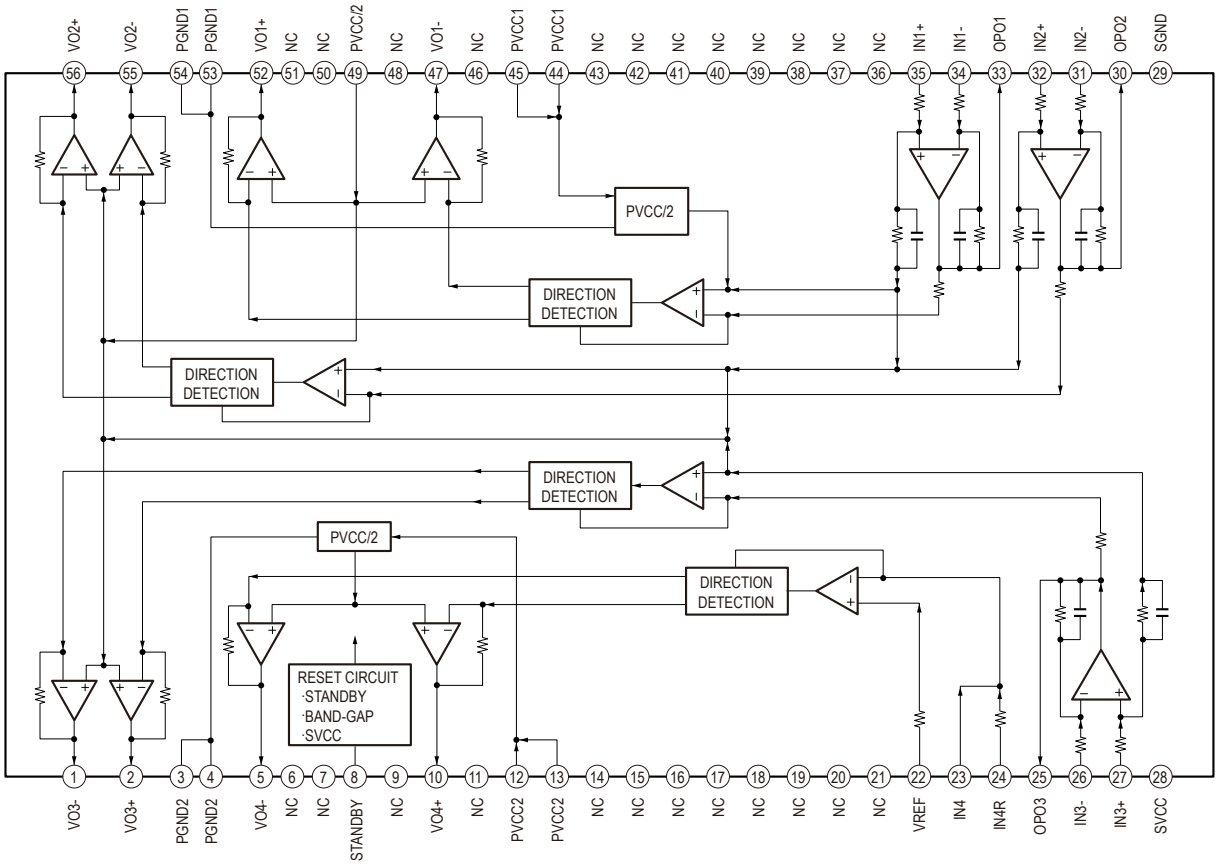
• IC Block Diagrams

– CD Board –

IC201 CXD3059AR

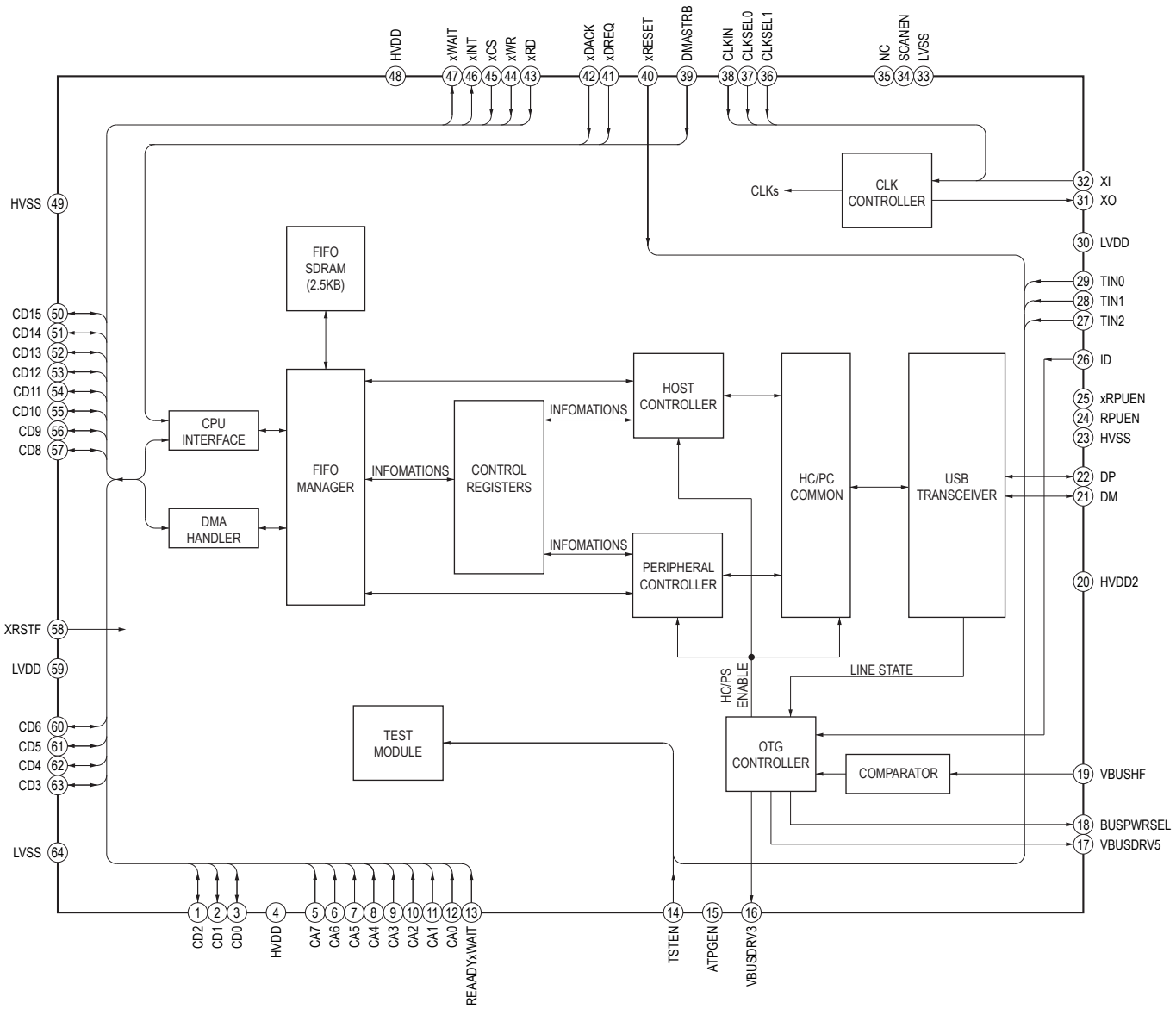

CPU INTERFACE
SERVO INTERFACE
D/A COVERTER
MIRR DFCT FOK
PWM GENERATOR
SERVO DSP
A/D CONVERTER
TE
FE
SUM
VC
DIGITAL CLV
SERVO AUTO SEQUENCER
LPF
LPF
CLOCK GENERATOR
DIGITAL OUT
D/A INTERFACE
SELECTOR
ERROR CORRECTOR
32k RAM
EFM DEMODULATOR
SUB CODE PROCESSOR
ASYNMMETRY CORRECTOR
DIGITAL PLL
DC/DC CONVERTER
ATT
EQ
AMP
APC
NC COUT WDCK C4M VDD SCOR C2PO GFS XPCK XUGF WFCK ATCK SCLK SENS VDD CLOK XLAT VSS DATA SYSM XRST EXCK SBSO SQCK SQSO XTACN IOVSS0 XTSL NC LMUT
MIRR DFCT FOK VSS LOCK MDP SSTP IOVSS1 SFDR SRDR TFDR TRDR FFDR FRDR IOVDD1 AVDD0 AVSS0 NC E F TEI TEO FEI FEO VC A B C D NC
RMUT IOVDD0 NC AVDD2 AOUT2 VREFR AVSS2 AVSS1 VREFL AOUT1 AVDD1 XVDD XTAI XTAO XVSS NC IOVSS2 TES1 TEST DOUT IOVDD2 EMPHI EMPH VDD BCK PCMD VSS LRCK LRCKI PCMDI
AVDD4 RFDCO PDSENS AC_SUM EQ_IN LD PD NC RFC AVSS4 RFACO RFACI AVDD3 BIAS ASYI ASYO VPCO VCTL AVSS3 CLTV FILO FILI PCO AVDD5 DDVROUT DDVRSEN AVSS5 DDCR NC BCKI

IC401 AN41050

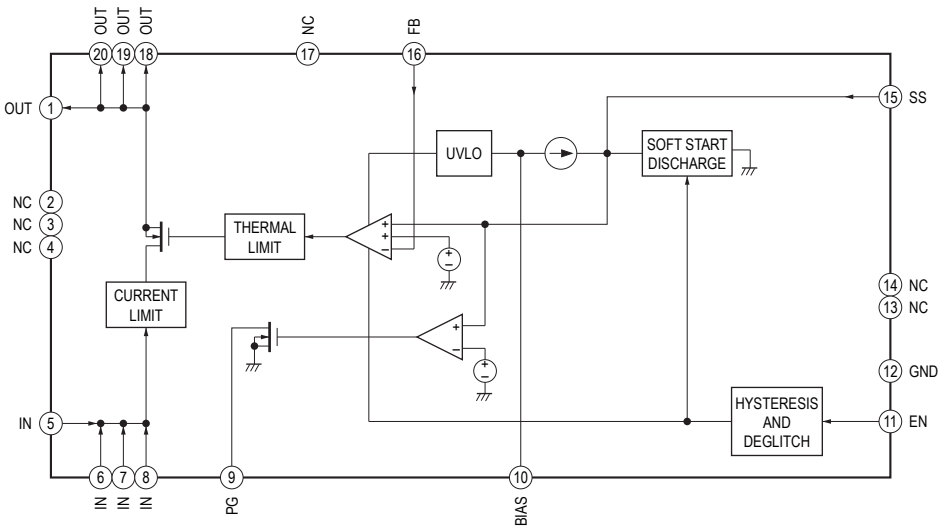

VO2+ VO2- PGND1 PGND1 VO1+ NC NC PVCC/2 NC VO1- NC PVCC1 PVCC1 NC NC NC NC NC NC NC NC IN1+ IN1- OPO1 IN2+ IN2- OPO2 SGND
56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29
PVCC/2
DIRECTION DETECTION
DIRECTION DETECTION
DIRECTION DETECTION
PVCC/2
DIRECTION DETECTION
RESET CIRCUIT
·STANDBY
·BAND-GAP
·SVCC
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28
VO3- VO3+ PGND2 PGND2 VO4- NC NC STANDBY NC VO4+ NC PVCC2 PVCC2 NC NC NC NC NC NC NC NC VREF IN4 IN4R OPO3 IN3- IN3+ SVCC

– USB MICOM Board –

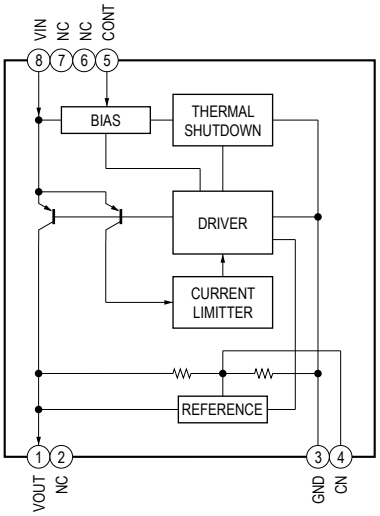
IC4 S1R72005F00A300



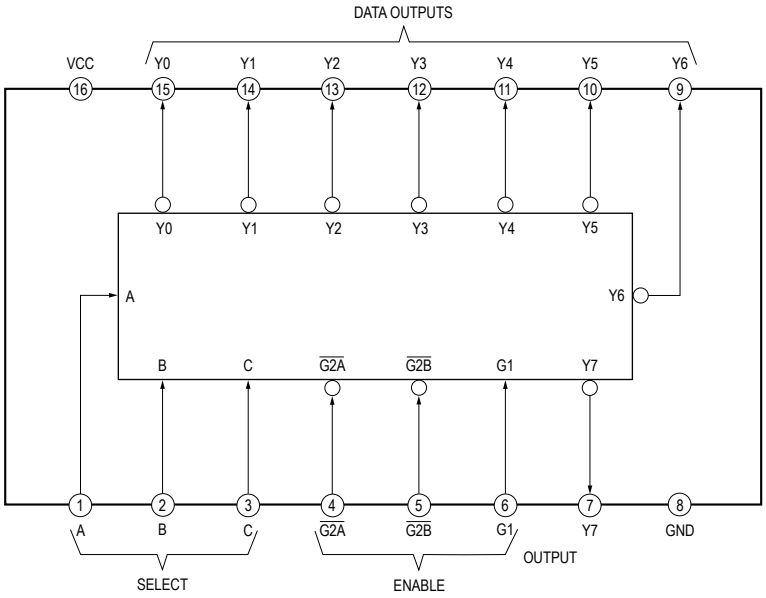
IC5 TPS74801RGWR



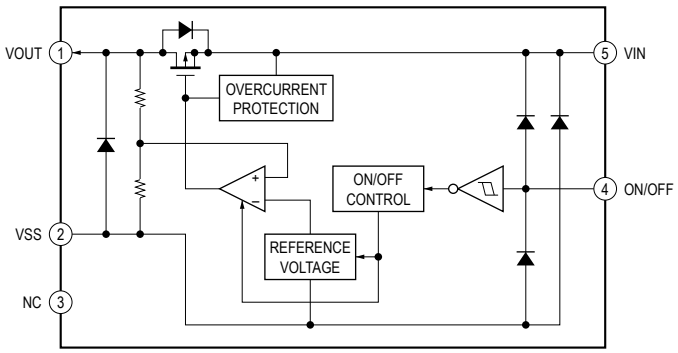
IC6 MM1663DHBE



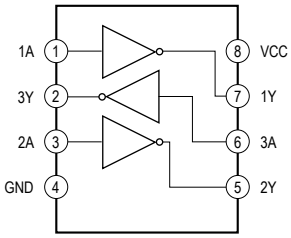
IC7 SN74LVC138APWR-12



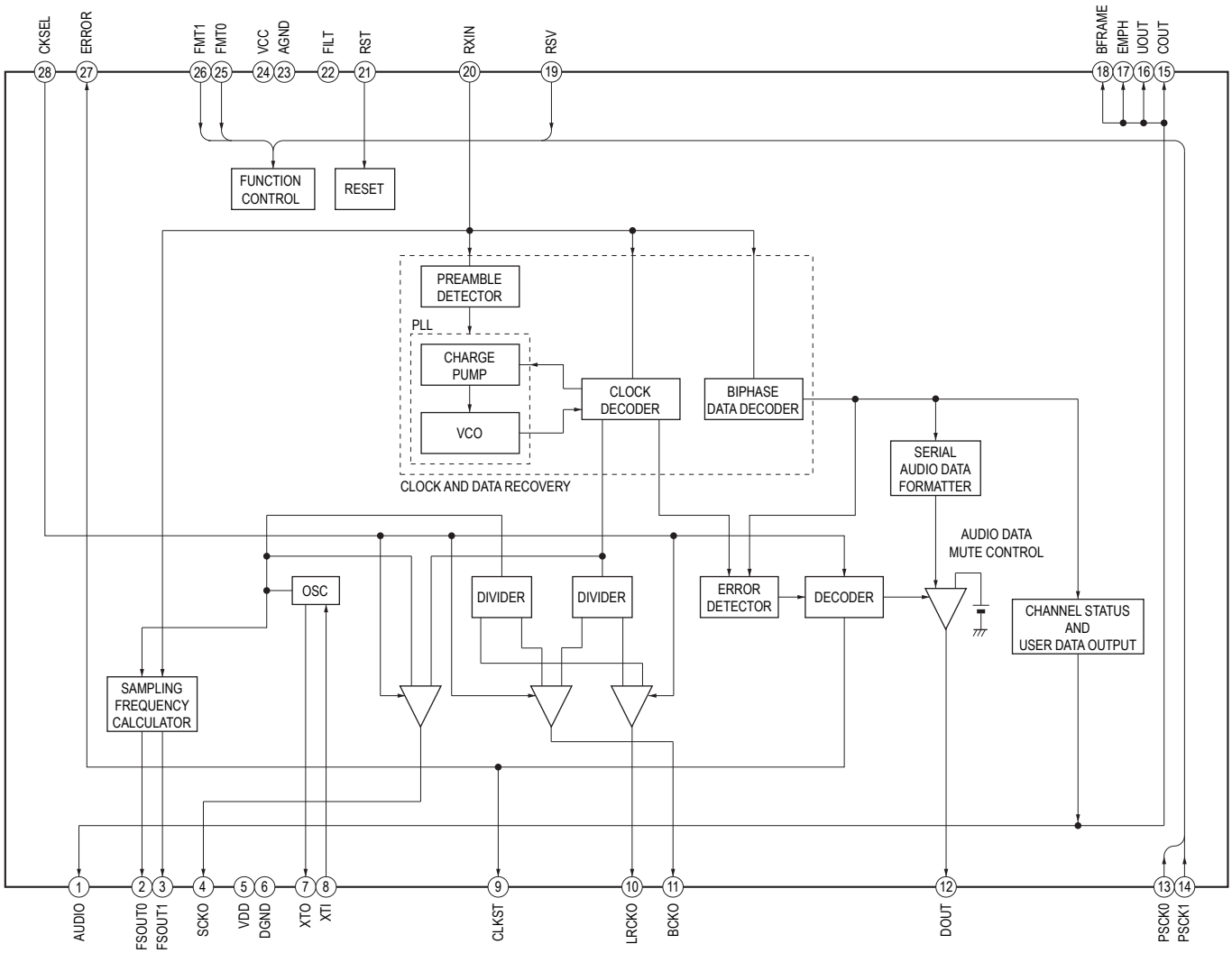
IC8 S-1132B25-U5T1G



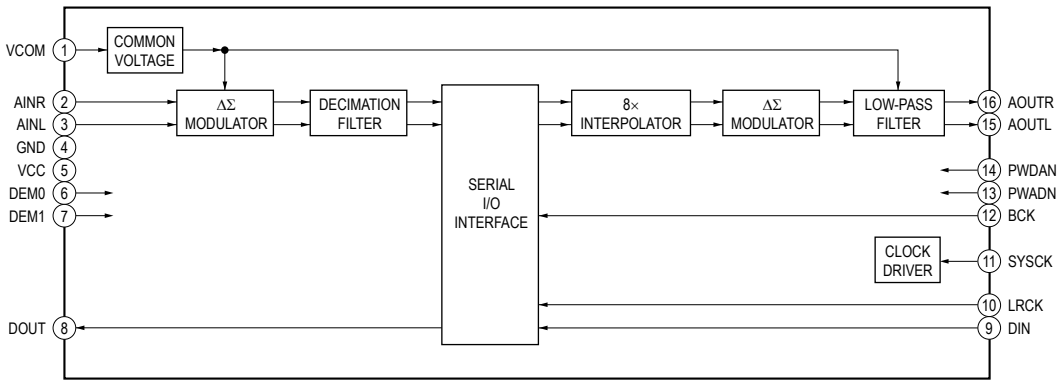
IC10 TC7WHU04FU (TE12R)



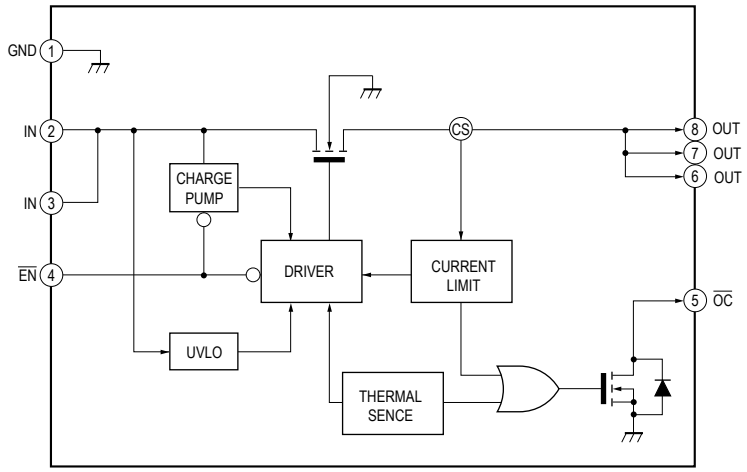
IC11 DIR9001S1PWRG4



IC12 AK4554VT-8-E2

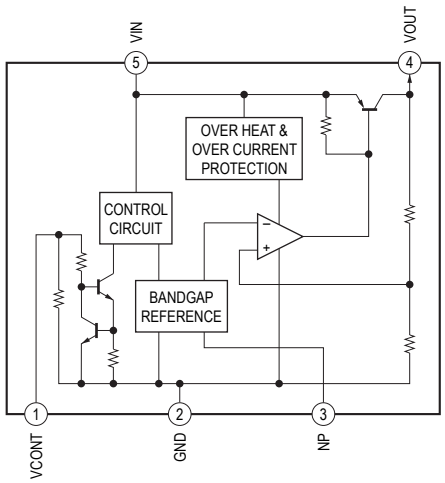


IC14 TPS2051BDRG4

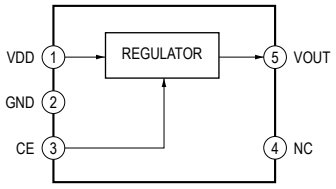


– DAB Board –

IC651 TK11133CSCL-G

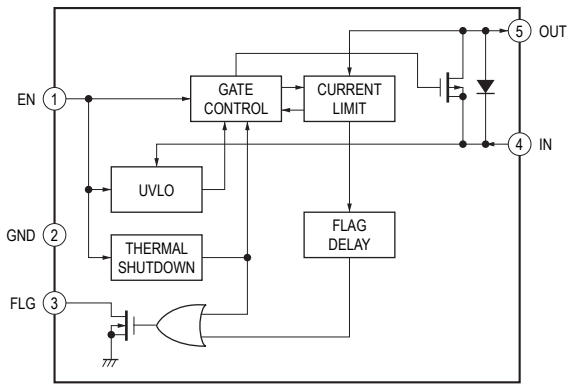


IC652 MM3291CNRE



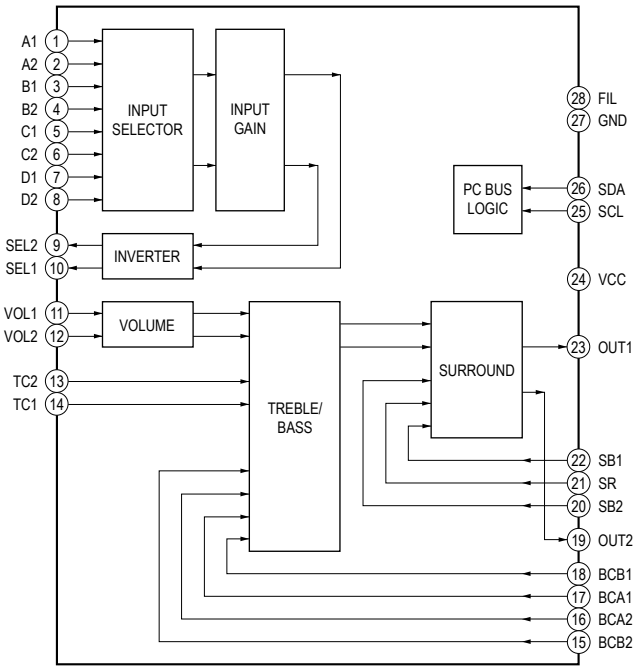
– DMP Board –

IC802 R5523N001B-TR-F

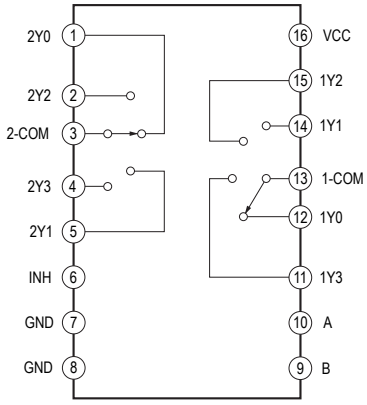


– MAIN Board –

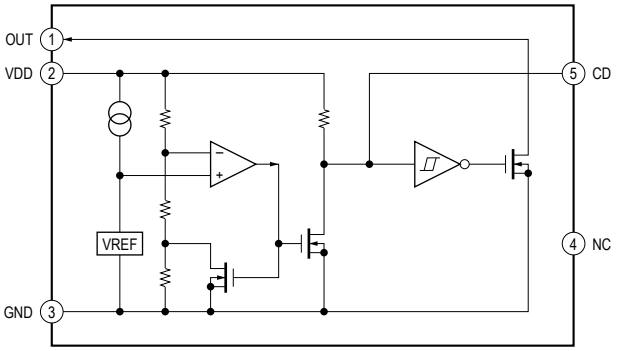
IC302 BD3499FV-E2



IC351 BU4052BCF-E2



IC801 PST3629NR



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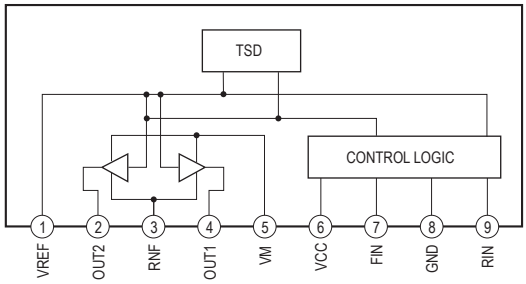
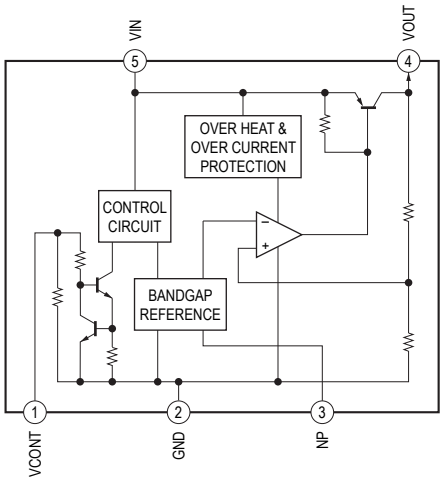
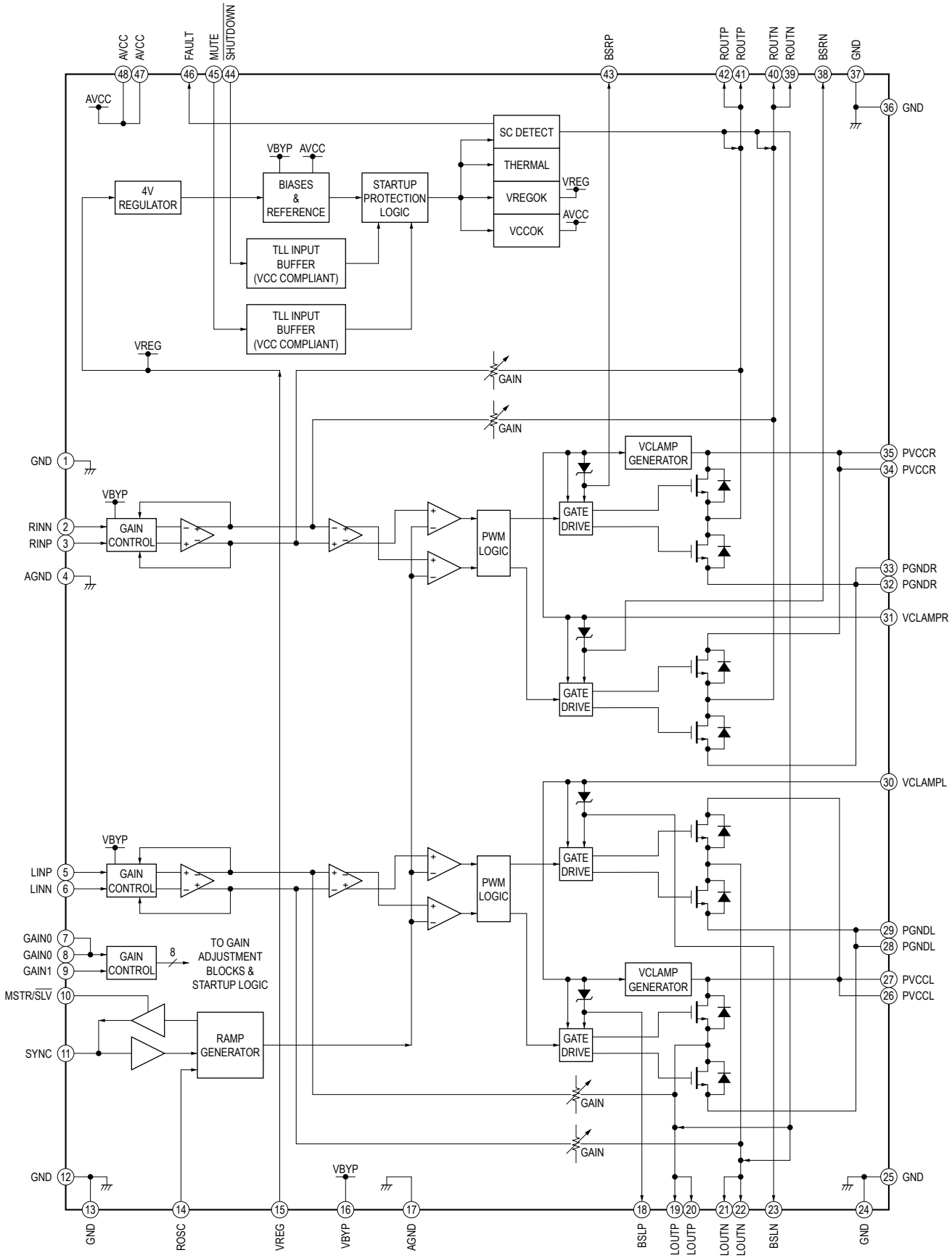


IC981, 982 TK11133CSCL-G



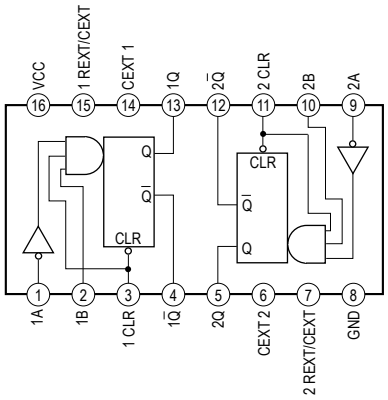
– D-AMP Board –

IC352 TPA3100D2PHPR

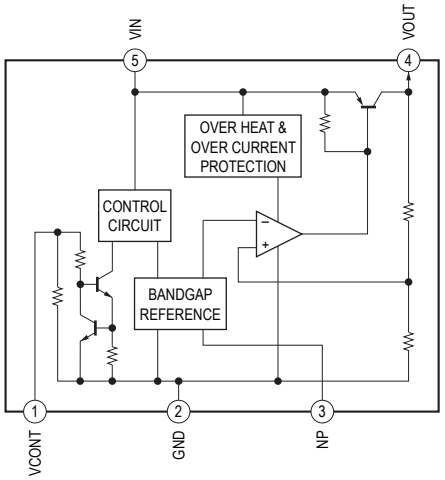


– DISPLAY Board –

IC401 SN74LV123ANSR

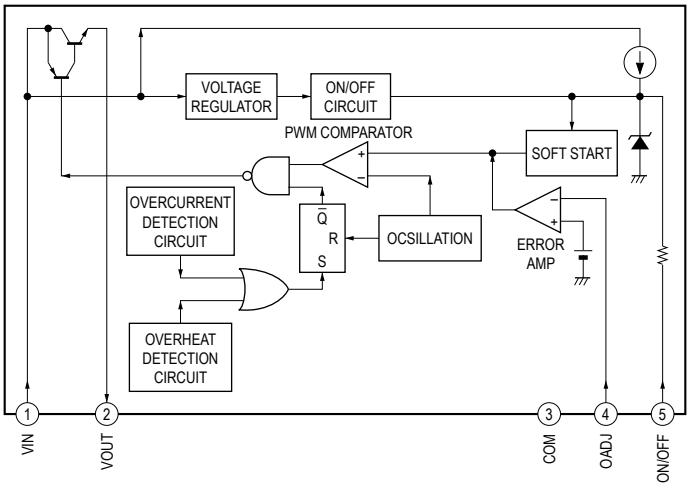


IC404 TK11133CSCL-G



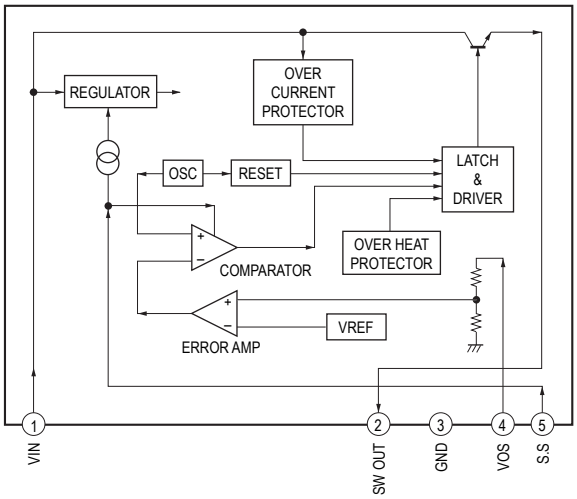
– D/D CON Board –

IC902 PQ1CG2032FZ

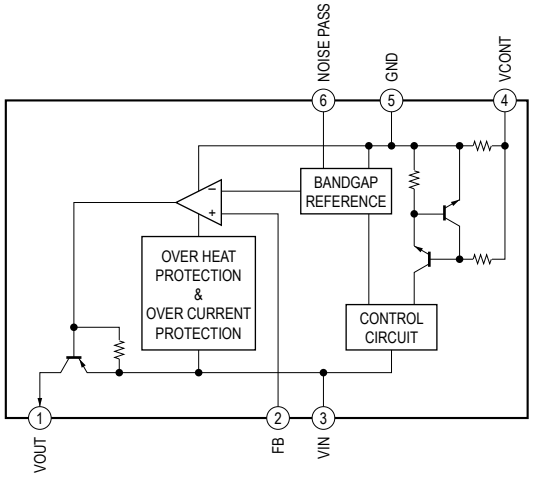


IC904, 906 SI-8050S-LF1101

IC907 SI-8120S

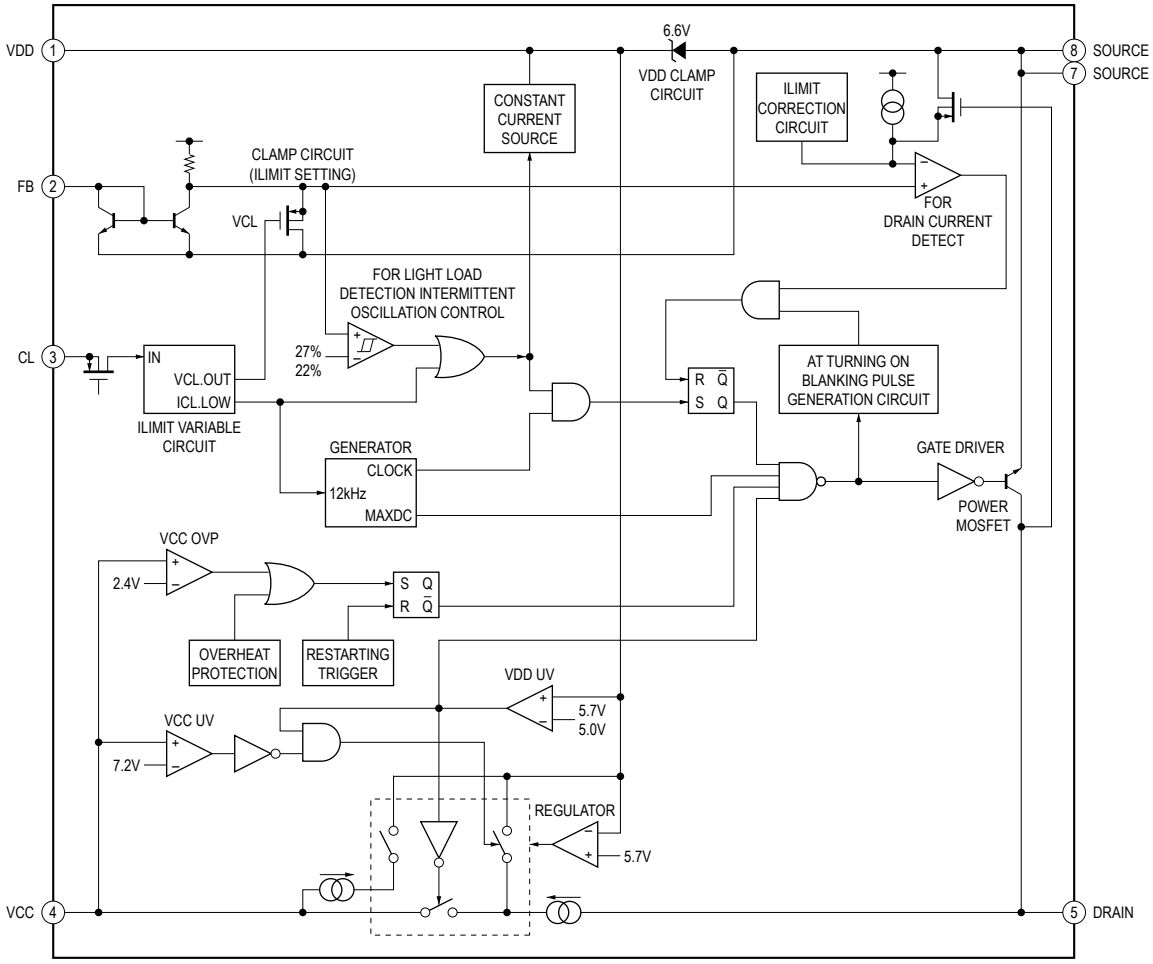


IC905 TK11100CSCB-G



– POWER Board –

IC01 MIP2F20MS1SO



• **IC Pin Function Description**

USB MICOM BOARD IC2 D708E001BRFP266 (USB SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	VSS	-	Ground terminal
2, 3	EM_A (_18), EM_A (_13)	O	Address signal output to the flash memory
4	CD-PO	O	Power supply on/off control signal output terminal for the CD section "H": power on
5	MCK	-	Not used
6	VSS	-	Ground terminal
7	EM_A (_19)	O	Address signal output to the flash memory
8	CVDD	-	Power supply terminal (+1.2V)
9	BCKI	I	Bit clock signal input from the data buffer
10	DVDD	-	Power supply terminal (+3.3V)
11	D_RESET	O	Reset signal output to the data buffer, A/D converter, D/A converter, USB interface and USB 2.0 hub controller "L": reset
12	LRCKI	I	L/R sampling clock signal input from the data buffer
13	VSS	-	Ground terminal
14	XRESET	I	Reset signal input from the system controller "L": reset
15	VSS	-	Ground terminal
16	CVDD	-	Power supply terminal (+1.2V)
17	CLKIN	I	System clock (22.5792MHz) input terminal
18	VSS	-	Ground terminal
19	TMS	-	Not used
20	CVDD	-	Power supply terminal (+1.2V)
21	XTRST	-	Not used
22	OSCVSS	-	Ground terminal
23	OSCIN	-	Not used
24	OSCOUT	-	Not used
25	OSCVDD	-	Power supply terminal (+1.2V)
26	VSS	-	Ground terminal
27	PLLHV	-	Power supply terminal (+3.3V)
28	TDI	-	Not used
29	TDO	-	Not used
30	VSS	-	Ground terminal
31	DVDD	-	Power supply terminal (+3.3V)
32	EMU (0)	-	Not used
33	CVDD	-	Power supply terminal (+1.2V)
34	EMU (1)	-	Not used
35	TCK	-	Not used
36	VSS	-	Ground terminal
37	EM_CAS	O	Column address strobe signal output to the SDRAM
38	EM_WE	O	Write enable signal output to the SDRAM, flash memory and USB interface
39	EM_WE_DQM (0)	O	Write enable signal output to the SDRAM
40	VSS	-	Ground terminal
41	EM_D (7)	I/O	Two-way data bus with the SDRAM, flash memory and USB interface
42	DVDD	-	Power supply terminal (+3.3V)
43	EM_D (6)	I/O	Two-way data bus with the SDRAM, flash memory and USB interface
44	CVDD	-	Power supply terminal (+1.2V)
45, 46	EM_D (5), EM_D (4)	I/O	Two-way data bus with the SDRAM, flash memory and USB interface
47	VSS	-	Ground terminal
48, 49	EM_D (3), EM_D (2)	I/O	Two-way data bus with the SDRAM, flash memory and USB interface
50	DVDD	-	Power supply terminal (+3.3V)
51, 52	EM_D (1), EM_D (0)	I/O	Two-way data bus with the SDRAM, flash memory and USB interface
53	CVDD	-	Power supply terminal (+1.2V)
54	VSS	-	Ground terminal
55, 56	EM_D (15), EM_D (14)	I/O	Two-way data bus with the SDRAM, flash memory and USB interface
57	CVDD	-	Power supply terminal (+1.2V)
58, 59	EM_D (13), EM_D (12)	I/O	Two-way data bus with the SDRAM, flash memory and USB interface
60	DVDD	-	Power supply terminal (+3.3V)
61	EM_D (11)	I/O	Two-way data bus with the SDRAM, flash memory and USB interface
62	VSS	-	Ground terminal

Pin No.	Pin Name	I/O	Description
63, 64	EM_D (10), EM_D (9)	I/O	Two-way data bus with the SDRAM, flash memory and USB interface
65	CVDD	-	Power supply terminal (+1.2V)
66	EM_D (8)	I/O	Two-way data bus with the SDRAM, flash memory and USB interface
67	EM_WE_DQM (1)	O	Write enable signal output to the SDRAM
68	DVDD	-	Power supply terminal (+3.3V)
69	VSS	-	Ground terminal
70	EM_CLK	O	Clock signal output to the SDRAM
71	EM_CKE	O	Clock enable signal output to the SDRAM
72	VSS	-	Ground terminal
73	DVDD	-	Power supply terminal (+3.3V)
74 to 76	EM_A (11_12), EM_A (9_10), EM_A (8_9)	O	Address signal output to the SDRAM and flash memory
77	CVDD	-	Power supply terminal (+1.2V)
78	VSS	-	Ground terminal
79	EM_A (7_8)	O	Address signal output to the SDRAM and flash memory
80	EM_A (6_7)	O	Address signal output to the SDRAM, flash memory and USB interface
81	DVDD	-	Power supply terminal (+3.3V)
82	VSS	-	Ground terminal
83, 84	EM_A (5_6), EM_A (4_5)	O	Address signal output to the SDRAM, flash memory and USB interface
85	CVDD	-	Power supply terminal (+1.2V)
86	EM_A (3_4)	O	Address signal output to the SDRAM, flash memory and USB interface
87	VSS	-	Ground terminal
88, 89	EM_A (2_3), EM_A (1_2)	O	Address signal output to the SDRAM, flash memory and USB interface
90	CVDD	-	Power supply terminal (+1.2V)
91	EM_A (0_1)	O	Address signal output to the SDRAM, flash memory and USB interface
92	DVDD	-	Power supply terminal (+3.3V)
93	EM_A (10_11)	O	Address signal output to the SDRAM and flash memory
94	EM_BA (1)/EM_A (_0)	O	Bank address signal output to the SDRAM, and address signal output to the flash memory and USB interface
95	VSS	-	Ground terminal
96	EM_BA (0)	O	Bank address signal output to the SDRAM
97	EM_CS (0)	O	Chip select signal output to the SDRAM
98	EM_RAS	O	Row address strobe signal output to the SDRAM
99	VSS	-	Ground terminal
100	EM_CS (2)	O	Chip select signal output to the memory decoder
101	CVDD	-	Power supply terminal (+1.2V)
102	EM_RW	-	Not used
103	DVDD	-	Power supply terminal (+3.3V)
104	EM_OE	O	Output enable signal output to the flash memory and USB interface
105	B	O	Address decode signal output to the memory decoder
106	VSS	-	Ground terminal
107	A	O	Address decode signal output to the memory decoder
108	I2CO_SCL/BOOT	I/O	Two-way I2C serial clock signal bus with the system controller
109	VSS	-	Ground terminal
110	GPIO/BOOT	-	Not used
111	I2CO_SDA/BOOT	I/O	Two-way I2C serial data bus with the system controller
112	DVDD	-	Power supply terminal (+3.3V)
113	SDTI	I	Audio serial data input from the A/D converter and D/A converter
114	VSS	-	Ground terminal
115	SDTO_O	O	Audio serial data output to the A/D converter and D/A converter
116	BD_CLK	O	Serial data transfer clock signal output to the digital servo
117	BD_SENS	I	Internal status (SENSE) input from the digital servo
118	VSS	-	Ground terminal
119	BD_GAIN-SW	O	Gain switch signal output to the motor/coil driver
120	BD_XLAT	O	Serial data latch pulse output to the digital servo
121	BD_DATA	O	Serial data output to the digital servo
122	BD_SCOR	I	Sub-code sync (S0+S1) detection signal input from the digital servo
123	CVDD	-	Power supply terminal (+1.2V)

Pin No.	Pin Name	I/O	Description
124	VSS	-	Ground terminal
125	DVDD	-	Power supply terminal (+3.3V)
126	USB_INT	I	Interrupt signal input from the USB interface
127	AC_DET	O	Power failure detection output terminal for the USB section
128	CVDD	-	Power supply terminal (+1.2V)
129	VSS	-	Ground terminal
130	BD_XTACN	O	Oscillation circuit on/off control signal output to the digital servo
131	EM_A (_14)	O	Address signal output to the flash memory
132	CVDD	-	Power supply terminal (+1.2V)
133	VSS	-	Ground terminal
134	SDTO_I	O	Audio serial data output to the A/D converter and D/A converter
135	BD_XRST	O	Reset signal output to the digital servo "L": reset
136	DVDD	-	Power supply terminal (+3.3V)
137, 138	EM_A (_15), EM_A (_16)	O	Address signal output to the flash memory
139	ACLKR0	-	Not used
140	VSS	-	Ground terminal
141	AFSR0	-	Not used
142	BCKO	O	Bit clock signal output to the A/D converter and D/A converter
143	EM_A (_17)	O	Address signal output to the flash memory
144	LRCKO	O	L/R sampling block signal output to the A/D converter and D/A converter

USB MICOM BOARD IC9 JM20339-LGCA0C (HARD DISK DRIVER)

Pin No.	Pin Name	I/O	Description
1 to 3	GPIO21 to GPIO23	-	Not used
4	MODE2	-	Not used
5, 6	NC	-	Not used
7	DGND	-	Ground terminal
8	VCCO	-	Power supply terminal (+3.3V)
9, 10	NC	-	Not used
11	GPIO7	-	Not used
12	RST#	I	Reset signal input from the USB system controller "L": reset
13	VBUS	I	VBUS voltage detect signal input from the USB 2.0 hub controller
14	AVREG	O	Power supply voltage (+1.8V) output terminal
15	AVDDH	-	Power supply terminal (+3.3V)
16	AGNDH	-	Ground terminal
17	XTALI	I	System clock (12MHz) input terminal
18	XTALO	O	System clock (12MHz) output terminal
19, 20	DM, DP	I/O	Audio serial data input/output with the USB 2.0 hub controller
21	AVDDH	-	Power supply terminal (+3.3V)
22	AGNDH	-	Ground terminal
23	NC	-	Not used
24	AVDDH	-	Power supply terminal (+3.3V)
25	AGND	-	Ground terminal
26	REXT	-	Not used
27, 28	RXP, RXN	O	Audio serial data output to the hard disk drive
29	AVDDL	-	Power supply terminal (+1.8V)
30	AGND	-	Ground terminal
31, 32	TXN, TXP	I	Audio serial data input from the hard disk drive
33 to 36	GPIO3 to GPIO0	-	Not used
37	TME#	-	Not used
38	PHYRDY	-	Not used
39	HDDA	-	Not used
40	GPIO4	-	Not used
41	DGND	-	Ground terminal
42	VCCK	-	Power supply terminal (+1.8V)
43 to 52	GPIO5, GPIO6, GPIO9 to GPIO15, GPIO8	-	Not used
53, 54	UAI, UAO	-	Not used
55	MODE1	-	**Not used**
56	VCCO	-	Power supply terminal (+3.3V)
57	DGND	-	Ground terminal
58	VCCK	-	Power supply terminal (+1.8V)
59	MODE0	-	Not used
60 to 64	GPIO16 to GPIO20	-	Not used

USB MICOM BOARD IC13 USB2512-AEZG (USB 2.0 HUB CONTROLLER)

Pin No.	Pin Name	I/O	Description
1, 2	USBDN1_DM, USBDN1_DP	I/O	Audio serial data input/output with the USB connector
3, 4	USBDN2_DM, USBDN2_DP	I/O	Audio serial data input/output with the hard disk driver
5	VDDA33	-	Power supply terminal (+3.3V)
6 to 9	NC	-	Not used
10	VDDA33	-	Power supply terminal (+3.3V)
11	TEST	-	Not used
12	PRTPWR1	O	Power supply on/off control signal output terminal for the USB VBUS section "H": power on
13	OSC1_N	I	Over current sense signal input from the USB interface
14	VDD18	-	Power supply terminal (+3.3V)
15	VDD33CR	-	Power supply terminal (+3.3V)
16	PRTPWR2	O	VBUS voltage detect signal output to the hard disk driver
17	OSC2_N	I	Over current sense signal input terminal
18 to 21	NC	-	Not used
22	SDA/SMBDATA/NON/ REM1	-	Not used
23	VDD33	-	Power supply terminal (+3.3V)
24	SCL/SMBCLK/ CFG_SEL0	-	Not used
25	HS_IND/CFG_SEL1	-	Not used
26	RESET_N	I	Reset signal input from the USB system controller "L": reset
27	VBUS_DET	I	VBUS voltage detect signal input terminal
28	SUSP_IND/ LOCAL_PWR/NON_PEM0	-	Not used
29	VDDA33	-	Power supply terminal (+3.3V)
30, 31	USBUP_DM, US-BUP_DP	I/O	Audio serial data input/output with the USB interface
32	XTAL2	O	System clock (24MHz) output terminal
33	XTAL1/CLKIN	I	System clock (24MHz) input terminal
34	VDD18PLL	-	Power supply terminal (+1.8V)
35	RBIAS	-	Not used
36	VDD33PLL	-	Power supply terminal (+3.3V)

MAIN BOARD IC803 R5F3640DDFA (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	INH	O	Audio source selection signal output to the input selector
2	HP DET	I	Headphone detection signal input terminal "H": headphone has been inserted
3	GC_RESET	O	Reset signal output to the display controller "L": reset
4	SIRCS	I	SIRCS signal input from the remote control receiver
5	NC	-	Not used
6	ST TUNED	I	Tuning detection signal input from the tuner (FM/AM) "L": tuned
7	RDS DATA	I	RDS serial data input from the tuner (FM/AM)
8	BYTE	I	External data bus width changeover signal input terminal Fixed at "L" in this set
9	CN VSS	-	Not used
10	XCIN	I	Sub system clock (32.768kHz) input terminal
11	XCOUT	O	Sub system clock (32.768kHz) output terminal
12	RESET	I	Reset signal input from the reset switch "L": reset
13	XOUT	O	Main system clock (5MHz) output terminal
14	VSS	-	Ground terminal
15	XIN	I	Main system clock (5MHz) input terminal
16	VCC	-	Power supply terminal (+3.3V)
17	NMI	-	Not used
18	RDS-INT	I	RDS interrupt signal input from the tuner (FM/AM)
19	NC	-	Not used
20	AC CUT	I	AC cut on/off detection signal input terminal "L": AC cut on
21	HP MUTE	O	Headphone muting on/off control signal output terminal "L": muting on
22	VOL IIC_CLK	I/O	Two-way I2C serial clock signal bus with the electrical volume
23	TA LINE-MUTE	O	Line muting on/off control signal output terminal "L": muting on
24	VOL IIC_DATA	I/O	Two-way I2C serial data bus with the electrical volume
25	REC MUTE	O	Muting on/off control signal output terminal "L": muting on
26	SP_MUTE	O	SP muting on/off control signal output to the digital power amplifier "L": muting on
27	DAMP_SHUTDOWN	I	Shut down state input from the digital power amplifier "L": shut down
28	XDAMP_PROTECT	I	Protect signal input from the digital power amplifier
29	IIC_CLK	I/O	Two-way I2C serial clock signal bus with the display controller
30	IIC_DATA	I/O	Two-way I2C serial data bus with the display controller
31	GENESIS IIC_DATA	I/O	Two-way I2C serial data bus with the sub system controller
32	GENESIS IIC_CLK	I/O	Two-way I2C serial clock signal bus with the sub system controller
33	NC	-	Not used
34	GENESIS POWER	O	Power supply on/off control signal output terminal for the USB section "H": power on
35	GENESIS RESET	O	Reset signal output to the USB system controller, flash memory and hard disk driver "L": reset
36	GENESIS AC DET	I	Power failure detection input terminal for the USB section
37	STANDBY LED	O	LED drive signal output terminal for the standby LED "H": LED on
38	USB VBUS ON	O	Power supply on/off control signal output terminal for the USB VBUS section "H": power on
39, 40	NC	-	Not used
41	PULL DOWN	-	Not used
42	CDM LOAD OUT	O	Loading motor control signal output terminal (for loading out)
43	CDM LOAD IN	O	Loading motor control signal output terminal (for loading in)
44	CDM OPEN SW	I	Disc tray open position detection signal input terminal
45	CDM CLOSE SW	I	Disc tray close position detection signal input terminal
46	PULL UP	-	Not used
47	DAB TXD_OUT	O	Serial data output terminal for the DAB tuner module
48	DAB RXD_IN	I	Serial data input terminal for the DAB tuner module
49	DAB_POWER_1.2	O	Power supply on/off control signal output terminal for the DAB tuner module (+1.2V)
50	DAB_POWER_3.3	O	Power supply on/off control signal output terminal for the DAB tuner module (+3.3V)
51 to 61	NC	-	Not used
62	VCC	-	Power supply terminal (+3.3V)
63	NC	-	Not used
64	VSS	-	Ground terminal
65 to 68	NC	-	Not used
69 to 72	TEST PORT	-	Not used
73	KEY_WAKE_UP_ DISPLAY	-	Not used

Pin No.	Pin Name	I/O	Description
74	KEY_WAKE_UP_ POWER	I	Key input terminal for the power key (A/D input)
75	NC	-	Not used
76	XDM_PROTECT	I	Protect signal input from the DMPORT section
77	CLINK_TXD_OUT	O	Serial data output to the DMPORT connector
78	CLINK_RXD_IN	I	Serial data input from the DMPORT connector
79	DMPORT DET	I	DMPORT detection signal input terminal
80	DM_EN	O	Power supply on/off control signal output terminal for the DMPORT section "H": power on
81 to 83	NC	-	Not used
84	I_POWER_MONITOR	I	Main power supply abnormal detection signal input terminal "L": abnormal
85	AC_DET	I	Power failure detection input terminal for the main power supply
86	SPEC_IN	I	Destination setting terminal
87	POWER_ON	O	Main power supply on/off control signal output terminal "H": power on
88	SPEC_OUT	O	Destination setting terminal
89 to 91	NC	-	Not used
92	ST CE	O	Chip enable signal output to the tuner (FM/AM)
93	ST DATA IN	I	Serial data input from the tuner (FM/AM)
94	ST CLK	O	Serial data transfer clock signal output to the tuner (FM/AM)
95	ST DATA OUT	O	Serial data output to the tuner (FM/AM)
96	AVSS	-	Ground terminal
97	SEL A	O	Audio source selection signal output to the input selector
98	VREF	I	Reference voltage (+3.3V) input terminal
99	AVCC	-	Power supply terminal (+3.3V)
100	SEL B	O	Audio source selection signal output to the input selector

DISPLAY BOARD IC403 R5F3640DDFA (DISPLAY CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	NC	-	Not used
2	SOFT-TEST	-	Not used
3	-	-	Not used
4	VFD_POWER	O	Power supply ON/OFF control signal output terminal for the liquid crystal display "H": power ON
5	LED_DATA	-	Not used
6	LED_LAT	-	Not used
7	LED_CLK	-	Not used
8	BYTE	I	External data bus width changeover signal input terminal Fixed at "L" in this set
9	CN VSS	-	Not used
10	XCIN	I	Not used
11	XCOUT	O	Not used
12	XRST	I	Reset signal input from the reset switch "L": reset
13	XOUT	O	System clock (5MHz) output terminal
14	VSS	-	Ground terminal
15	XIN	I	System clock (5MHz) input terminal
16	VCC	-	Power supply terminal (+3.3V)
17	NMI	-	Not used
18	LED_HDD	O	LED drive signal output terminal for the HDD indicator "H": LED ON
19	LED_USB	O	LED drive signal output terminal for the USB indicator "H": LED ON
20	LED_CD	O	LED drive signal output terminal for the CD indicator "H": LED ON
21	LED_AUDIO_IN	O	LED drive signal output terminal for the AUDIO IN indicator "H": LED ON
22	LED_DMPORT	O	LED drive signal output terminal for the DMPORT indicator "H": LED ON
23	LED_TUNER	O	LED drive signal output terminal for the TUNER indicator "H": LED ON
24 to 26	-	-	Not used
27	NC	-	Not used
28	-	-	Not used
29	IIC_CLK	I/O	Two-way I2C serial clock signal bus with the system controller
30	IIC_DATA	I/O	Two-way I2C serial data bus with the system controller
31 to 34	NO USE	-	Not used
35	VFD_DATA	O	Serial data output to the fluorescent indicator tube and regulator control
36	VFD_LAT	O	Serial data latch pulse signal output to the fluorescent indicator tube and regulator control
37	VFD_CLK	O	Serial clock signal bus with the fluorescent indicator tube
38	VFD_BK	O	Blank control signal output to the fluorescent indicator tube
39, 40	NC	-	Not used
41	NO USE	-	Not used
42, 43	NC	-	Not used
44	XRD	-	Not used
45	NC	-	Not used
46	NO USE	-	Not used
47	NC	-	Not used
48 to 50	XCS2, XCS1, XCS	-	Not used
51 to 61	A19 to A9	-	Not used
62	VCC	-	Power supply terminal (+3.3V)
63	A8	-	Not used
64	VSS	-	Ground terminal
65 to 72	A7 to A0	-	Not used
73 to 88	D15 to D0	-	Not used
89 to 91	NC	-	Not used
92	VOL	I	Jog dial pulse input from the rotary encoder (for VOLUME)
93	SPEC_IN	I	Destination setting terminal
94, 95	KEY2, KEY1	I	Panel key input terminal (A/D input)
96	AVSS	-	Ground terminal
97	KEY0	I	Panel key input terminal (A/D input)
98	VREF	I	Reference voltage (+3.3V) input terminal
99	AVCC	-	Power supply terminal (+3.3V)
100	NC	-	Not used

POWER BOARD IC02 CXD9841P (POWER CONTROL)

Pin No.	Pin Name	I/O	Description
1	VSENSE	I	AC line input voltage detection signal input terminal
2	F/B	I	Feedback signal input terminal for frequency modulation of oscillator
3	CT	-	External capacitor connection terminal for oscillator
4	RT	-	External resistor connection terminal for oscillator
5	GND	-	Ground terminal
6	PROTECT	-	External capacitor connection terminal for intermittent operation timer when abnormality detecting it
7	SS	-	External capacitor connection terminal for soft start
8	VC1	I	Power supply terminal for control circuit "L": stop, "H": operation start
9	OCP	I	Over current detection signal and DIDT protection signal input terminal
10	VC2	O	Power supply output terminal for driver
11	P-GND	I	Ground terminal for lower side driver
12	VG (L)	O	Lower side driver drive signal output terminal
13	-	-	Not used
14	VB	I	Power supply terminal for upper side driver
15	VS	I	Reference power supply input terminal for upper side driver
16	VG (H)	O	Upper side driver drive signal output terminal
17	-	-	Not used
18	VD	-	Terminal for drain kick start

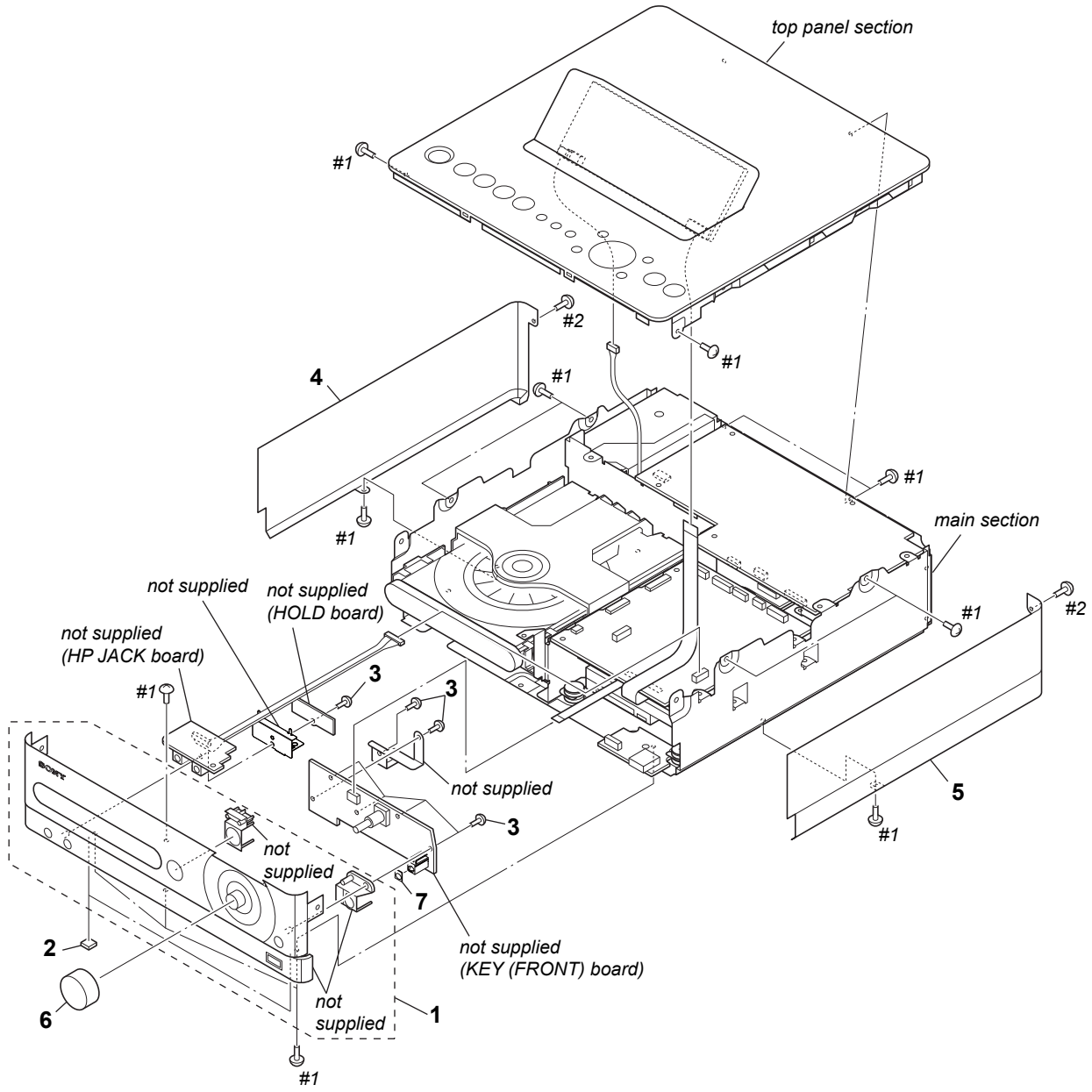
SECTION 7
EXPLODED VIEWS

Note:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Abbreviation
  AUS : Australian model
  E51 : Chilean and Peruvian models
  MX : Mexican model
  RU : Russian model

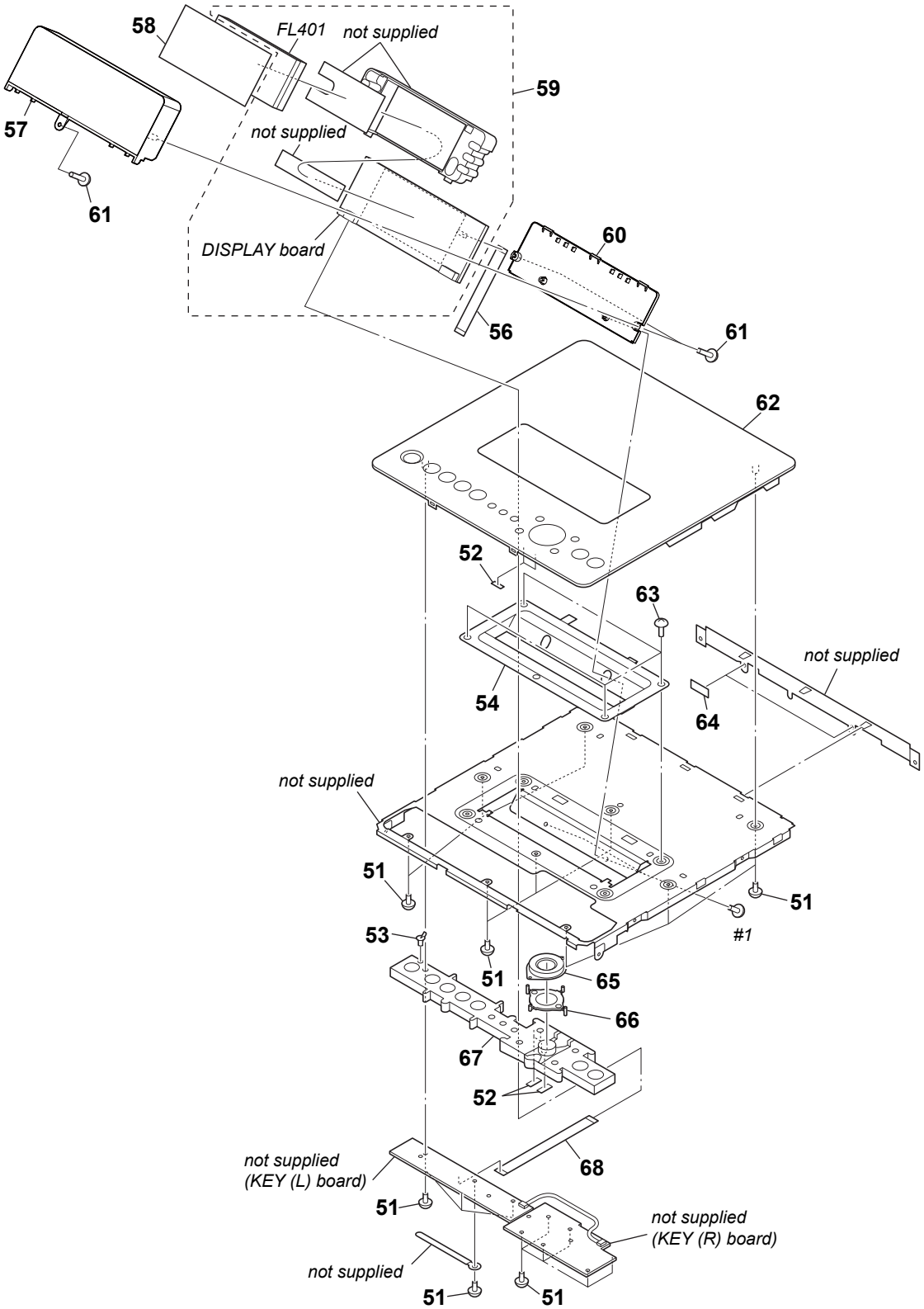
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

7-1. PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	X-2189-000-1	PANEL (FRONT) ASSY (AEP, UK)	
1	X-2190-790-1	PANEL (FRONT) ASSY (RU, E51, MX, AUS)	
2	4-233-372-02	FOOT (FELT)	
3	2-633-134-01	SCREW (B2.6), (+) BV TAPPING	
4	3-280-187-01	PANEL (SIDE L)	
5	3-280-188-01	PANEL (SIDE R)	
6	3-280-182-01	KNOB (VOLUME)	
7	2-681-451-01	SHEET (RM)	
#1	7-685-645-79	SCREW +BVTP 3X6 TYPE2 IT-3	
#2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

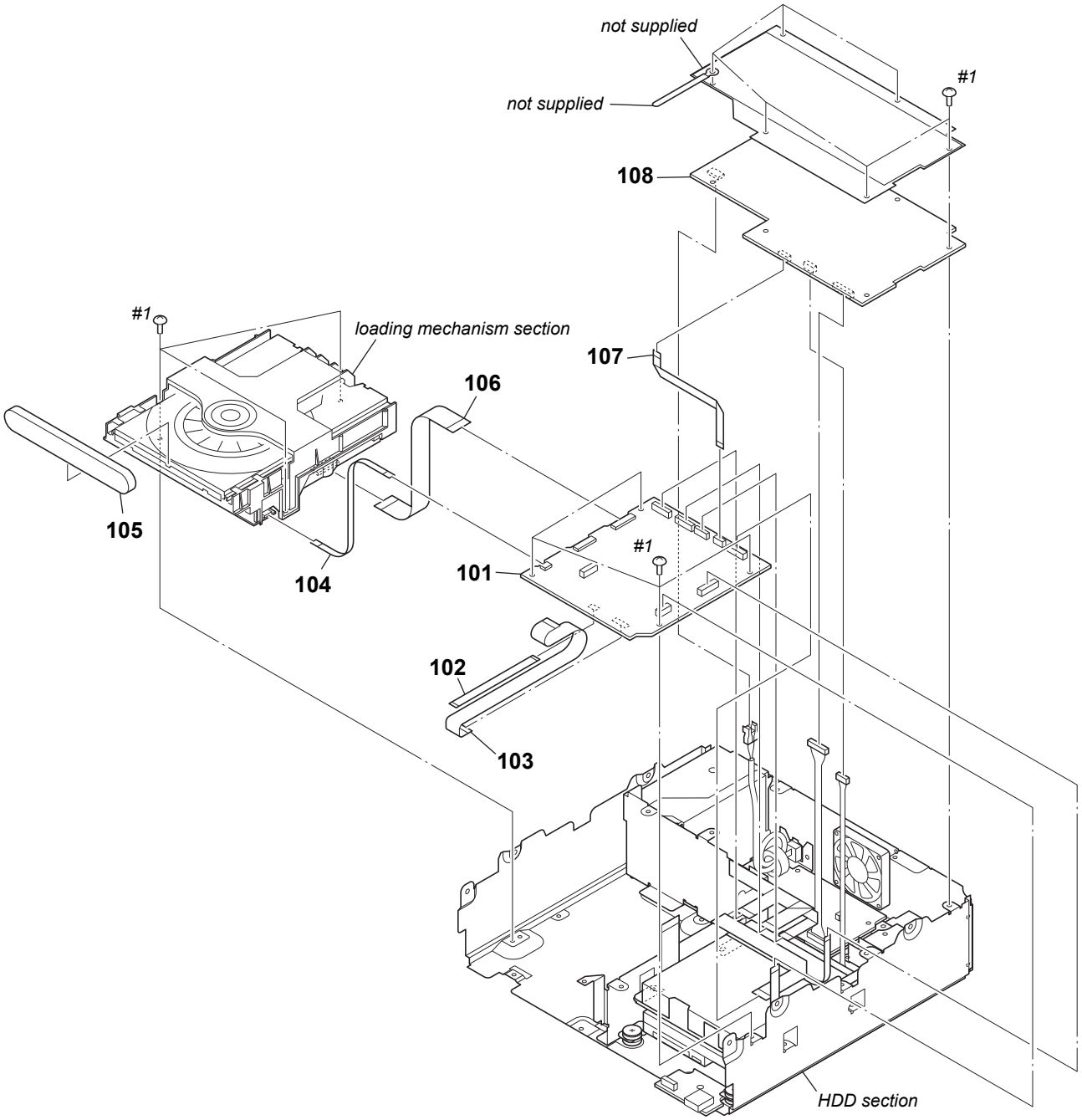
7-2. TOP PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	2-633-134-01	SCREW (B2.6), (+) BV TAPPING	
52	3-515-102-21	CUSHION	
53	3-280-190-01	PLATE (POWER), LIGHT GUIDE	
54	3-280-171-01	PLATE (TOP), ORNAMENTAL	
56	1-831-769-21	CABLE, FLEXIBLE FLAT (9 CORE)	
57	X-2190-466-1	CASE (FL) ASSY	
58	3-299-795-01	FILTER (FL)	
59	A-1498-592-A	DISPLAY BOARD, COMPLETE	
60	3-280-176-01	COVER (FL)	
61	3-087-053-01	+BVTP2.6 (3CR)	
62	3-280-179-01	PANEL (TOP) (AEP, RU, E51, MX, AUS)	

Ref. No.	Part No.	Description	Remark
62	3-280-179-11	PANEL (TOP) (UK)	
63	3-077-331-21	+BV3 (3-CR)	
64	4-000-346-01	SHEET (PANEL REAR), ADHESIVE	
65	3-280-174-01	BUTTON (CURSOR)	
66	3-280-173-01	BASE (CURSOR)	
67	3-280-172-01	BUTTON (TOP)	
68	1-831-763-21	CABLE, FLEXIBLE FLAT (7 CORE)	
FL401	1-519-997-11	VACUUM FLUORESCENT DISPLAY	
#1	7-685-645-79	SCREW +BVTP 3X6 TYPE2 IT-3	

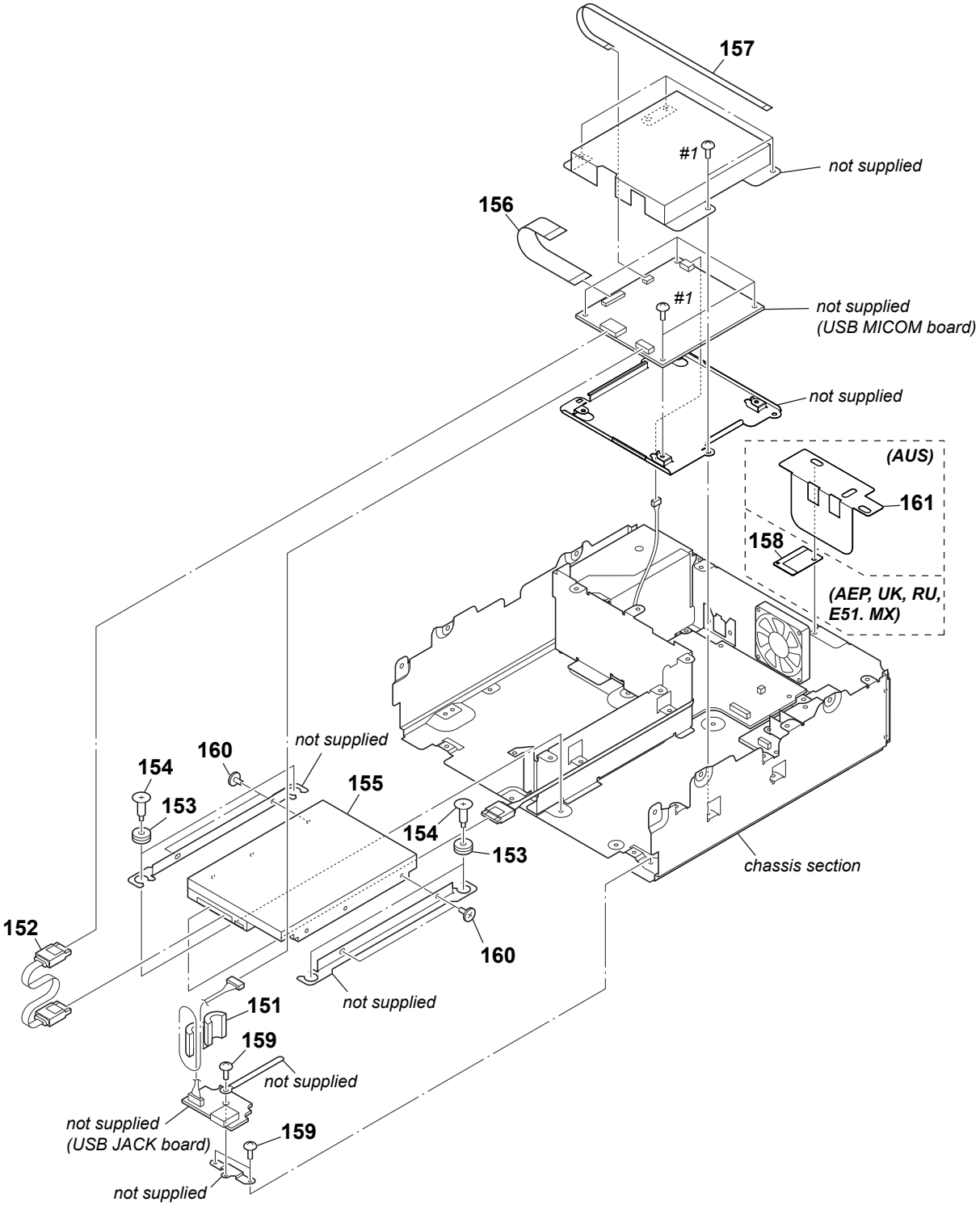
7-3. MAIN SECTION



Ref. No.	Part No.	Description	Remark
101	A-1498-599-A	MAIN BOARD, COMPLETE (AEP)	
101	A-1536-379-A	MAIN BOARD, COMPLETE (RU)	
101	A-1536-382-A	MAIN BOARD, COMPLETE (UK)	
101	A-1547-154-A	MAIN BOARD, COMPLETE (MX, AR)	
101	A-1550-937-A	MAIN BOARD, COMPLETE (E51)	
101	A-1550-944-A	MAIN BOARD, COMPLETE (AUS)	
102	1-831-755-21	CABLE, FLEXIBLE FLAT (5 CORE)	
103	1-831-780-21	CABLE, FLEXIBLE FLAT (11 CORE)	
104	1-832-533-21	CABLE, FLEXIBLE FLAT (5 CORE)	

Ref. No.	Part No.	Description	Remark
105	3-280-185-01	PLATE (CD TRAY), ORNAMENTAL	
106	1-835-450-21	CABLE, FLEXIBLE FLAT (19 CORE)	
107	1-832-795-21	CABLE, FLEXIBLE FLAT (5 CORE)	
108	A-1498-601-A	POWER BOARD, COMPLETE (EXCEPT MX, E51)	
108	A-1547-194-A	POWER BOARD, COMPLETE (MX)	
108	A-1550-939-A	POWER BOARD, COMPLETE (E51)	
#1	7-685-645-79	SCREW +BVTP 3X6 TYPE2 IT-3	

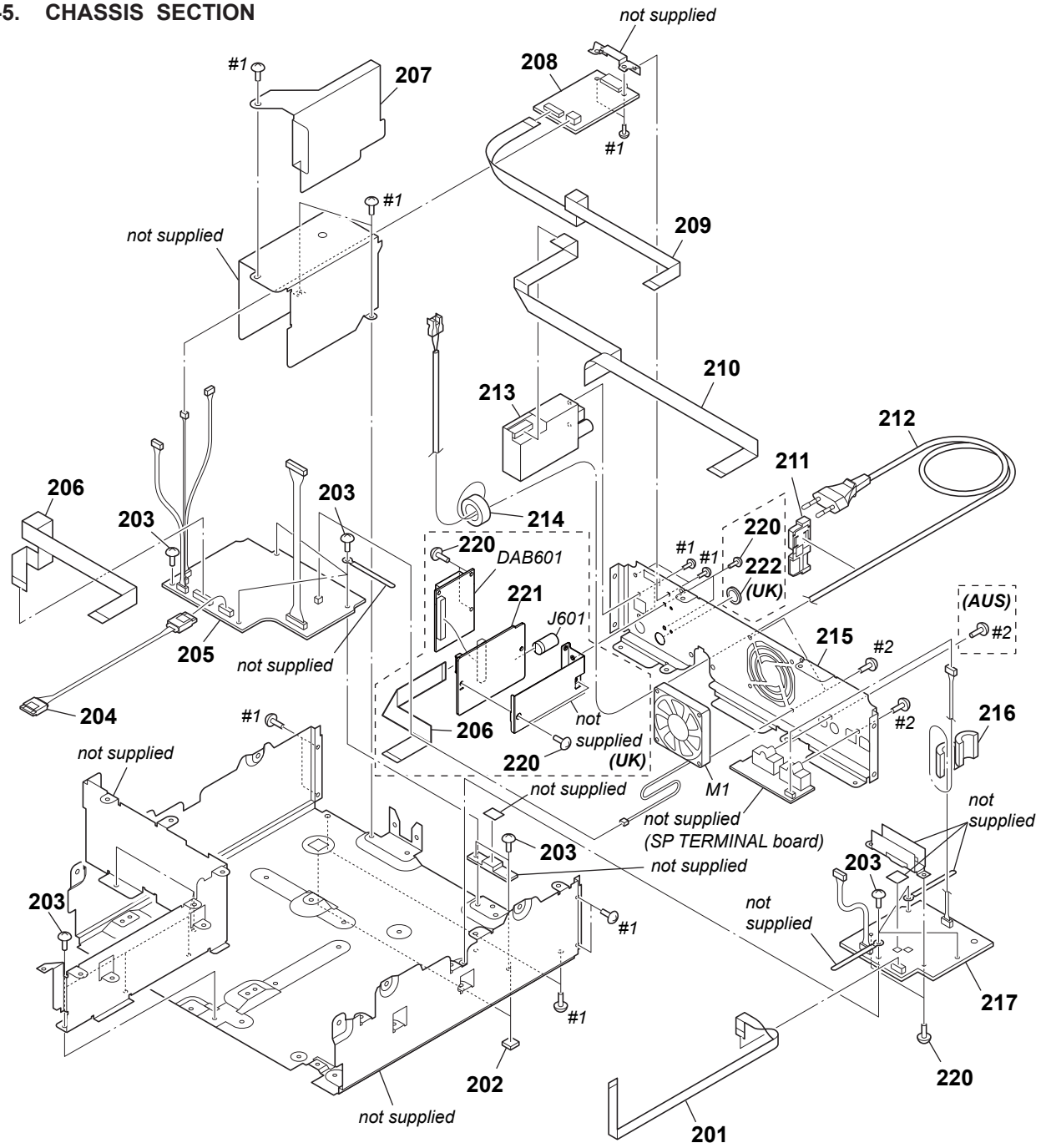
7-4. HDD SECTION



Ref. No.	Part No.	Description	Remark
151	1-400-932-11	FILTER, CLAMP	
152	1-965-828-11	HARNESS	
153	3-089-380-01	DAMPER	
154	2-159-920-01	SCREW, HDD DAMPER	
155	A-1554-741-A	HDD ASSY (GENERAL) (AEP, UK, RU, AUS)	
155	A-1554-742-A	HDD ASSY (LATIN) (E51, MX)	
156	1-835-449-21	CABLE, FLEXIBLE FLAT (17 CORE)	

Ref. No.	Part No.	Description	Remark
157	1-832-537-21	CABLE, FLEXIBLE FLAT (5 CORE)	
158	3-875-817-01	BARRIER (POWER B) (AEP, UK, RU, E51, MX)	
159	3-077-331-21	+BV3 (3-CR)	
160	3-087-675-01	6-32UNCX5	
161	4-107-308-01	BARRIER (POWER C) (AUS)	
#1	7-685-645-79	SCREW +BVTP 3X6 TYPE2 IT-3	

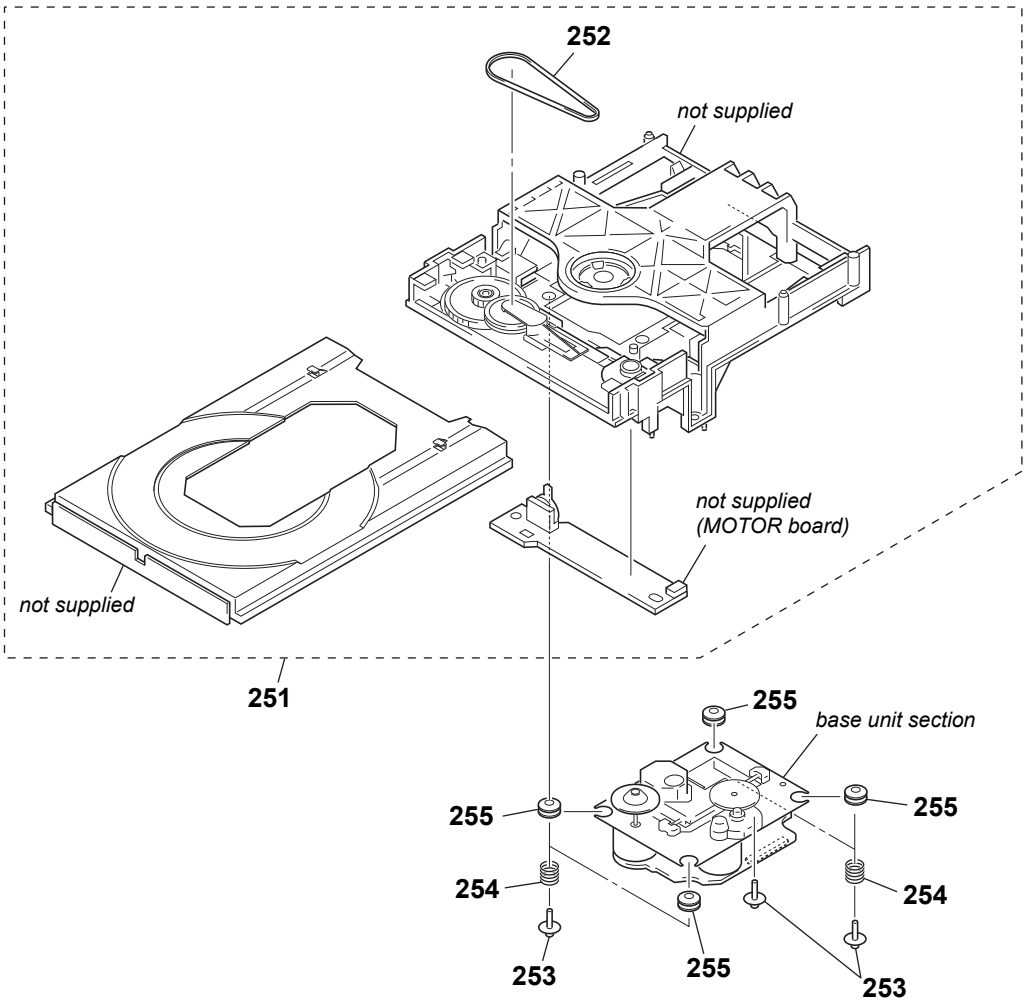
7-5. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
201	1-832-808-21	CABLE, FLEXIBLE FLAT (7 CORE)	
202	4-233-372-02	FOOT (FELT)	
203	3-077-331-21	+BV3 (3-CR)	
204	1-965-872-11	HARNESS	
205	A-1498-602-A	D/D CON BOARD, COMPLETE	
206	1-831-930-21	CABLE, FLEXIBLE FLAT (11 CORE)	
207	3-870-302-01	BARRIER (TUNNER)	
208	A-1498-593-A	DMP BOARD, COMPLETE	
209	1-832-569-21	CABLE, FLEXIBLE FLAT (11 CORE)	
210	1-832-820-21	CABLE, FLEXIBLE FLAT (9 CORE)	(RU, E51, MX, AUS)
210	1-832-830-21	CABLE, FLEXIBLE FLAT (11 CORE) (AEP, UK)	
211	3-703-244-00	BUSHING (2104), CORD (AEP, UK, RU, E51, AUS)	
* 211	3-703-571-12	BUSHING (S) (4516), CORD (MX)	
⚠ 212	1-769-744-81	CORD, POWER (UK)	
⚠ 212	1-834-966-21	CORD, POWER (AEP, RU, E51)	
⚠ 212	1-834-967-21	CORD, POWER (AUS)	

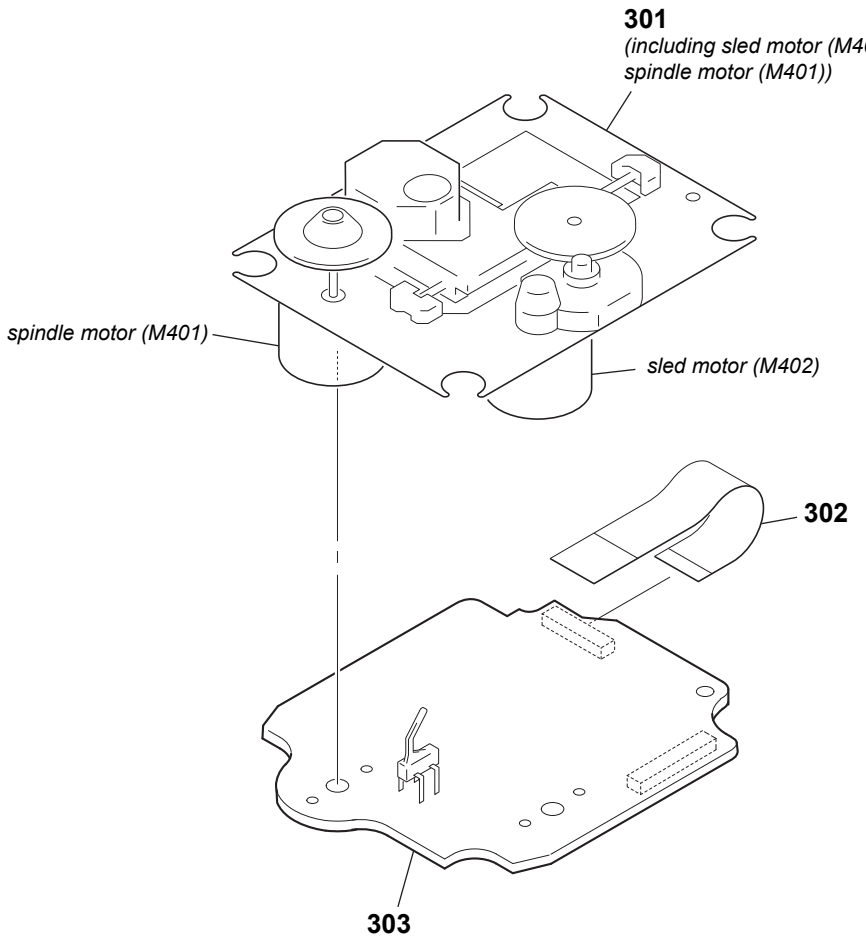
Ref. No.	Part No.	Description	Remark
⚠ 212	1-835-080-11	CORD, POWER (MX)	
213	1-693-738-11	TUNER (FM/AM) (AEP, UK)	
213	1-693-765-11	TUNER (FM/AM) (E51, MX, AUS)	
213	1-693-767-11	TUNER (FM/AM) (RU)	
214	1-500-868-11	CORE, FERRITE	
215	3-280-189-01	PANEL (REAR)	
216	1-400-932-11	FILTER, CLAMP	
217	A-1498-587-A	D-AMP BOARD, COMPLETE	
220	2-633-134-01	SCREW (B2.6), (+) BV TAPPING (UK)	
221	A-1536-385-A	DAB BOARD, COMPLETE (UK)	
222	2-650-108-01	NUT (UK)	
DAB601	1-480-340-41	MODULE (DAB TUNER) (UK)	
J601	1-820-441-11	CONNECTOR, COAXIAL (F TYPE) (DAB 75Ω)	(UK)
M1	1-787-607-11	D.C. FAN (50 SQUARE)	
#1	7-685-645-79	SCREW +BVTP 3X6 TYPE2 IT-3	
#2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

7-6. LOADING MECHANISM SECTION



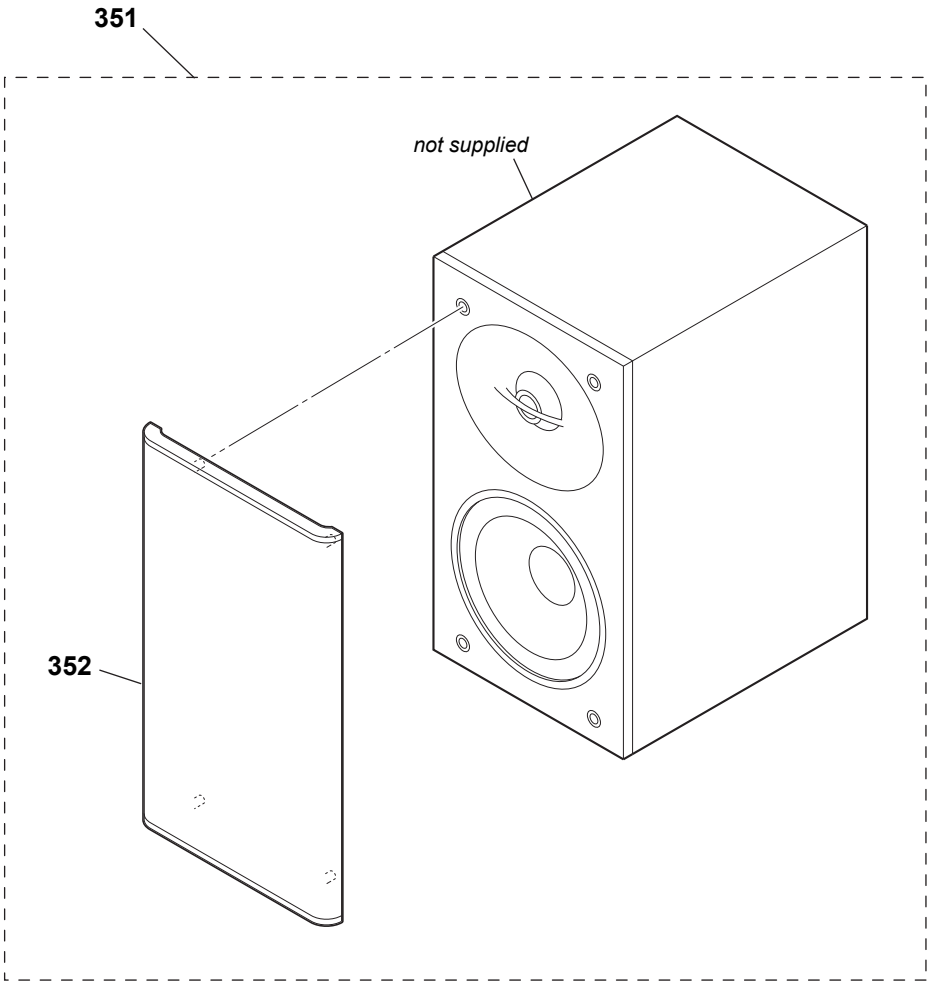
Ref. No.	Part No.	Description	Remark
251	A-1242-967-A	LOADING (BK) ASSY	
252	3-080-478-01	BELT	
253	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
254	4-227-045-41	SPRING (INSULATOR)	
255	4-229-005-41	INSULATOR	

7-7. BASE UNIT SECTION



Ref. No.	Part No.	Description	Remark
⚠ 301	8-820-272-02	OPTICAL PICK-UP BLOCK (KSM215DHAP/C2NP)	
302	1-832-404-21	CABLE, FLEXIBLE FLAT (16 CORE)	
303	A-1498-560-A	CD BOARD, COMPLETE	

7-8. SPEAKER SECTION (SS-CE35HD)



Ref. No.	Part No.	Description	Remark
351	A-1508-681-A	SYSTEM (L) ASSY (Lch) (AEP, UK, RU, AUS)	
351	A-1508-706-A	SYSTEM (L) ASSY (Lch) (E51, MX, AR)	
351	A-1508-682-A	SYSTEM (R) ASSY (Rch) (AEP, UK, RU, AUS)	

Ref. No.	Part No.	Description	Remark
351	A-1508-707-A	SYSTEM (R) ASSY (Rch) (E51, MX, AR)	
352	X-2189-219-1	GRILLE FRAME ASSY	

SECTION 8
ELECTRICAL PARTS LIST

CD

Note:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS
  uF: µF
- COILS
  uH: µH
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . , uPA. . , µPA. . ,
  uPB. . : µPB. . , uPC. . , µPC. . ,
  uPD. . : µPD. .
- Abbreviation
  AUS : Australian model
  E51 : Chilean and Peruvian models
  MX : Mexican model
  RU : Russian model

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remark
	A-1498-560-A	CD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C102	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C103	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C104	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C105	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C106	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C201	1-128-995-21	ELECT CHIP	100uF	20%	10V
C202	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C203	1-128-995-21	ELECT CHIP	100uF	20%	10V
C204	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C205	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C206	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C207	1-128-995-21	ELECT CHIP	100uF	20%	10V
C208	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C210	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C211	1-128-995-21	ELECT CHIP	100uF	20%	10V
C212	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C213	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C214	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C215	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C217	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C218	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C219	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C220	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C232	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C251	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C252	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C253	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C254	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C256	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C257	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C258	1-164-388-91	CERAMIC CHIP	270PF	5%	50V
C259	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C260	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C261	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C264	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C265	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C267	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C268	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C269	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C270	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C271	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C272	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C291	1-164-315-11	CERAMIC CHIP	470PF	5%	50V

Ref. No.	Part No.	Description			Remark
C292	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C301	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C302	1-137-710-91	CERAMIC CHIP	10uF	20%	6.3V
C303	1-137-710-91	CERAMIC CHIP	10uF	20%	6.3V
C321	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C322	1-115-156-11	CERAMIC CHIP	1uF		10V
C323	1-128-995-21	ELECT CHIP	100uF	20%	10V
C401	1-128-396-11	ELECT CHIP	470uF	20%	10V
C403	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C404	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C405	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C421	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C422	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C423	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C424	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C425	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C428	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C429	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C430	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C440	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
		< CONNECTOR >			
CN101	1-770-702-21	CONNECTOR, FFC/FPC 19P			
CN301	1-770-425-51	CONNECTOR, FFC/FPC 16P			
		< DIODE >			
D440	8-719-058-24	DIODE RB501V-40TE-17			
D441	8-719-058-24	DIODE RB501V-40TE-17			
		< IC >			
IC201	8-752-425-12	IC CXD3059AR			
IC401	8-759-713-71	IC AN41050			
		< TRANSISTOR >			
Q321	6-551-120-01	TRANSISTOR 2SA2119K			
		< RESISTOR/FERRITE BEAD >			
R101	1-216-809-11	METAL CHIP	100	5%	1/10W
R102	1-216-809-11	METAL CHIP	100	5%	1/10W
R103	1-216-809-11	METAL CHIP	100	5%	1/10W
R104	1-216-809-11	METAL CHIP	100	5%	1/10W
R105	1-216-809-11	METAL CHIP	100	5%	1/10W
R106	1-216-809-11	METAL CHIP	100	5%	1/10W
R201	1-500-445-21	FERRITE, EMI (SMD) (2012)			
R202	1-500-445-21	FERRITE, EMI (SMD) (2012)			
R203	1-216-295-91	SHORT CHIP	0		
R206	1-216-864-11	SHORT CHIP	0		

CD **D-AMP**

Ref. No.	Part No.	Description			Remark
R252	1-216-835-11	METAL CHIP	15K	5%	1/10W
R253	1-216-821-11	METAL CHIP	1K	5%	1/10W
R254	1-216-835-11	METAL CHIP	15K	5%	1/10W
R255	1-216-821-11	METAL CHIP	1K	5%	1/10W
R256	1-216-835-11	METAL CHIP	15K	5%	1/10W
R257	1-216-857-11	METAL CHIP	1M	5%	1/10W
R258	1-216-841-11	METAL CHIP	47K	5%	1/10W
R259	1-216-833-11	METAL CHIP	10K	5%	1/10W
R260	1-216-864-11	SHORT CHIP	0		
R265	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R266	1-216-821-11	METAL CHIP	1K	5%	1/10W
R267	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R268	1-216-864-11	SHORT CHIP	0		
R269	1-216-809-11	METAL CHIP	100	5%	1/10W
R270	1-216-809-11	METAL CHIP	100	5%	1/10W
R272	1-216-864-11	SHORT CHIP	0		
R275	1-216-809-11	METAL CHIP	100	5%	1/10W
R276	1-216-841-11	METAL CHIP	47K	5%	1/10W
R277	1-216-809-11	METAL CHIP	100	5%	1/10W
R278	1-216-864-11	SHORT CHIP	0		
R279	1-216-864-11	SHORT CHIP	0		
R280	1-216-864-11	SHORT CHIP	0		
R281	1-469-324-21	FERRITE, EMI (SMD) (2012)			
R291	1-216-809-11	METAL CHIP	100	5%	1/10W
R292	1-216-809-11	METAL CHIP	100	5%	1/10W
R301	1-216-295-91	SHORT CHIP	0		
R302	1-216-295-91	SHORT CHIP	0		
R321	1-218-446-11	METAL CHIP	1	5%	1/10W
R322	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R323	1-216-864-11	SHORT CHIP	0		
R324	1-216-845-11	METAL CHIP	100K	5%	1/10W
R325	1-216-864-11	SHORT CHIP	0		
R326	1-216-864-11	SHORT CHIP	0		
R401	1-216-295-91	SHORT CHIP	0		
R421	1-216-821-11	METAL CHIP	1K	5%	1/10W
R422	1-216-840-11	METAL CHIP	39K	5%	1/10W
R423	1-216-864-11	SHORT CHIP	0		
R425	1-216-833-11	METAL CHIP	10K	5%	1/10W
R426	1-216-837-11	METAL CHIP	22K	5%	1/10W
R432	1-216-864-11	SHORT CHIP	0		
R440	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
		< SWITCH >			
S201	1-771-853-11	SWITCH, DETECTION (LIMIT)			
		< VIBRATOR >			
X201	1-813-379-11	VIBRATOR, CRYSTAL (67.7376MHz)			
**********					
	A-1498-587-A	D-AMP BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C151	1-126-960-11	ELECT	1uF	20%	50V
C152	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C153	1-126-960-11	ELECT	1uF	20%	50V
C154	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C155	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C156	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V

Ref. No.	Part No.	Description			Remark
C158	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C161	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C162	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C166	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C167	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C172	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C173	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C174	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	50V
C175	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	50V
C176	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	50V
C177	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	50V
C251	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C252	1-126-960-11	ELECT	1uF	20%	50V
C253	1-126-960-11	ELECT	1uF	20%	50V
C254	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C255	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C256	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C259	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C260	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C264	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C265	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C266	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C272	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C273	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C274	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	50V
C275	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	50V
C276	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	50V
C277	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	50V
C351	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C352	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C353	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C354	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C355	1-126-947-11	ELECT	47uF	20%	35V
C356	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C360	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C362	1-125-827-91	CERAMIC CHIP	1uF	10%	25V
C363	1-128-953-31	ELECT	470uF	20%	25V
C364	1-125-827-91	CERAMIC CHIP	1uF	10%	25V
C365	1-125-827-91	CERAMIC CHIP	1uF	10%	25V
C366	1-128-953-31	ELECT	470uF	20%	25V
C367	1-125-827-91	CERAMIC CHIP	1uF	10%	25V
C369	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C370	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C371	1-125-827-91	CERAMIC CHIP	1uF	10%	25V
C372	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
		< CONNECTOR >			
CNP351	1-568-826-11	CONNECTOR, FFC 7P			
		< DIODE >			
D351	6-501-774-01	DIODE MAZ8150G0LS0			
		< GROUND TERMINAL >			
* EB351	1-537-738-21	TERMINAL, EARTH			
		< IC >			
IC352	6-710-904-01	IC TPA3100D2PHPR			

Ref. No.	Part No.	Description				Remark
		< COIL >				
L151	1-457-387-11	INDUCTOR	22uH			
L251	1-457-387-11	INDUCTOR	22uH			
		< TRANSISTOR >				
Q151	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF			
Q152	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF			
Q251	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF			
Q252	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF			
Q352	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF			
Q353	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF			
Q354	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF			
Q355	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF			
		< RESISTOR >				
R157	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R158	1-216-849-11	METAL CHIP	220K	5%	1/10W	
R159	1-216-849-11	METAL CHIP	220K	5%	1/10W	
R164	1-216-805-11	METAL CHIP	47	5%	1/10W	
R165	1-216-805-11	METAL CHIP	47	5%	1/10W	
R166	1-216-805-11	METAL CHIP	47	5%	1/10W	
R167	1-216-805-11	METAL CHIP	47	5%	1/10W	
R257	1-216-849-11	METAL CHIP	220K	5%	1/10W	
R258	1-216-849-11	METAL CHIP	220K	5%	1/10W	
R259	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R264	1-216-805-11	METAL CHIP	47	5%	1/10W	
R265	1-216-805-11	METAL CHIP	47	5%	1/10W	
R266	1-216-805-11	METAL CHIP	47	5%	1/10W	
R267	1-216-805-11	METAL CHIP	47	5%	1/10W	
R351	1-216-864-11	SHORT CHIP	0			
R354	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R355	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R356	1-216-809-11	METAL CHIP	100	5%	1/10W	
R357	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R359	1-216-864-11	SHORT CHIP	0			
R362	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R363	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R364	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R366	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R368	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R369	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R370	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R371	1-216-833-11	METAL CHIP	10K	5%	1/10W	
⚠ R372	1-219-393-11	METAL	0.05	10%	5W	F
R373	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R374	1-216-864-11	SHORT CHIP	0			
R375	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R377	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R378	1-216-864-11	SHORT CHIP	0			
R379	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R380	1-216-833-11	METAL CHIP	10K	5%	1/10W	
**********						
	A-1498-602-A	D/D CON BOARD, COMPLETE				
		**********				
	7-685-645-79	SCREW +BVTP 3X6 TYPE2 IT-3				
		< CAPACITOR >				
C919	1-112-238-21	ELECT	470uF	20%	25V	

Ref. No.	Part No.	Description			Remark
C922	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C923	1-112-231-11	ELECT	2200uF	20%	16V
C924	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C925	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C928	1-112-226-21	ELECT	470uF	20%	16V
C931	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C932	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C933	1-112-231-11	ELECT	2200uF	20%	16V
C936	1-126-767-11	ELECT	1000uF	20%	16V
C939	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C940	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C941	1-112-231-11	ELECT	2200uF	20%	16V
C942	1-112-238-21	ELECT	470uF	20%	25V
C943	1-126-933-11	ELECT	100uF	20%	16V
C947	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C948	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C949	1-112-231-11	ELECT	2200uF	20%	16V
C950	1-100-717-91	CERAMIC CHIP	1uF		16V
C952	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C953	1-126-925-91	ELECT	470uF	20%	10V
C954	1-100-717-91	CERAMIC CHIP	1uF		16V
C955	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C956	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C957	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C958	1-100-717-91	CERAMIC CHIP	1uF		16V
C959	1-126-965-91	ELECT	22uF	20%	50V
C967	1-126-960-11	ELECT	1uF	20%	50V
C968	1-126-933-11	ELECT	100uF	20%	16V
		< CONNECTOR >			
CN903	1-815-443-11	PIN, CONNECTOR (PWB) 2P			
CN908	1-819-132-11	PIN, CONNECTOR 4P			
CNP904	1-568-830-11	CONNECTOR, FFC 11P			
		< DIODE >			
D905	6-501-177-01	DIODE UDZW-TE17-13B			
D906	6-501-171-01	DIODE UDZW-TE17-7.5B			
D908	8-719-073-84	DIODE 31DQ06-FC5			
D909	8-719-073-84	DIODE 31DQ06-FC5			
D910	8-719-073-84	DIODE 31DQ06-FC5			
D911	8-719-073-84	DIODE 31DQ06-FC5			
D912	6-501-817-01	DIODE MA2J1110GLS0			
D913	6-500-334-01	DIODE MC2836-T112-1			
D914	6-501-817-01	DIODE MA2J1110GLS0			
D915	6-501-046-01	DIODE 1N5402-F46			
D916	6-501-046-01	DIODE 1N5402-F46			
D917	6-501-046-01	DIODE 1N5402-F46			
D918	6-501-171-01	DIODE UDZW-TE17-7.5B			
D919	6-501-177-01	DIODE UDZW-TE17-13B			
D920	6-501-817-01	DIODE MA2J1110GLS0			
D921	6-501-817-01	DIODE MA2J1110GLS0			
D922	6-501-817-01	DIODE MA2J1110GLS0			
D924	8-719-073-84	DIODE 31DQ06-FC5			
D925	6-501-817-01	DIODE MA2J1110GLS0			
D926	6-501-817-01	DIODE MA2J1110GLS0			
D927	6-501-817-01	DIODE MA2J1110GLS0			
D928	6-501-817-01	DIODE MA2J1110GLS0			
D929	6-501-817-01	DIODE MA2J1110GLS0			
D930	6-501-817-01	DIODE MA2J1110GLS0			

D/D CON **DAB**

Ref. No.	Part No.	Description			Remark
		< IC >			
IC902	8-759-640-19	IC PQ1CG2032FZ			
IC904	8-759-474-09	IC SI-8050S-LF1101			
IC905	6-707-208-01	IC TK11100CSCB-G			
IC906	8-759-474-09	IC SI-8050S-LF1101			
IC907	6-700-944-01	IC SI-8120S			
IC908	6-700-830-01	IC KIA7809API			
		< COIL >			
L902	1-456-214-11	COIL, CHOPPER			
L903	1-456-214-11	COIL, CHOPPER			
L904	1-456-214-11	COIL, CHOPPER			
L905	1-456-214-11	COIL, CHOPPER			
		< TRANSISTOR >			
Q904	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q905	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q906	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q907	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q909	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
		< RESISTOR >			
R916	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R917	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R918	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R922	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R923	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W
R924	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W
R925	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R927	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R928	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R931	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R932	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R933	1-216-849-11	METAL CHIP	220K	5%	1/10W
R934	1-216-837-11	METAL CHIP	22K	5%	1/10W
R937	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R938	1-216-821-11	METAL CHIP	1K	5%	1/10W
R953	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R954	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R955	1-216-821-11	METAL CHIP	1K	5%	1/10W
R956	1-216-833-11	METAL CHIP	10K	5%	1/10W
R957	1-216-841-11	METAL CHIP	47K	5%	1/10W
R958	1-216-849-11	METAL CHIP	220K	5%	1/10W
R959	1-216-849-11	METAL CHIP	220K	5%	1/10W
R960	1-216-864-11	SHORT CHIP	0		
R963	1-216-833-11	METAL CHIP	10K	5%	1/10W
R965	1-216-821-11	METAL CHIP	1K	5%	1/10W
R966	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R967	1-216-833-11	METAL CHIP	10K	5%	1/10W
R970	1-260-083-11	CARBON	47	5%	1/2W
R971	1-216-833-11	METAL CHIP	10K	5%	1/10W
R972	1-216-833-11	METAL CHIP	10K	5%	1/10W
R973	1-216-845-11	METAL CHIP	100K	5%	1/10W
R974	1-216-833-11	METAL CHIP	10K	5%	1/10W
R975	1-216-841-11	METAL CHIP	47K	5%	1/10W
R976	1-216-833-11	METAL CHIP	10K	5%	1/10W
R977	1-216-833-11	METAL CHIP	10K	5%	1/10W
R978	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R979	1-216-829-11	METAL CHIP	4.7K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R980	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
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	A-1536-385-A	DAB BOARD, COMPLETE (UK)			
		**********			
		< CAPACITOR >			
C173	1-126-160-11	ELECT	1uF	20%	50V
C174	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C175	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C176	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C273	1-126-160-11	ELECT	1uF	20%	50V
C274	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C275	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C276	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C317	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C318	1-126-933-11	ELECT	100uF	20%	16V
C319	1-125-972-91	ELECT	100uF	20%	16V
C652	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C653	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C655	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C657	1-124-584-00	ELECT	100uF	20%	6.3V
C658	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C659	1-126-929-21	ELECT	4700uF	20%	10V
C660	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C662	1-126-157-11	ELECT	10uF	20%	16V
C663	1-124-584-00	ELECT	100uF	20%	6.3V
C664	1-124-584-00	ELECT	100uF	20%	6.3V
C665	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C666	1-126-157-11	ELECT	10uF	20%	16V
C669	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C670	1-126-518-11	ELECT	470uF	20%	4V
C671	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C672	1-126-518-11	ELECT	470uF	20%	4V
C673	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
		< CONNECTOR >			
CN601	1-568-830-11	CONNECTOR, FFC 11P			
CN602	1-821-719-11	P.W.B CONNECTOR 30P			
		< DIODE >			
D654	8-719-063-79	DIODE 1N4002B			
		< FERRITE BEAD >			
FB651	1-410-397-21	FERRITE	1.1uH		
FB652	1-414-228-11	INDUCTOR, FERRITE BEAD			
		< IC >			
IC304	8-759-100-96	IC uPC4558G2			
IC651	6-702-302-01	IC TK11133CSCL-G			
IC652	6-711-132-01	IC MM3291CNRE			
IC653	8-759-646-52	IC KIA7805API			
		< JUMPER RESISTOR >			
JR651	1-216-864-11	SHORT CHIP	0		
JR652	1-216-864-11	SHORT CHIP	0		
JR653	1-216-864-11	SHORT CHIP	0		
JR654	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description			Remark
		< COIL >			
L651	1-469-152-11	FERRITE, EMI (SMD) (2012)			
L652	1-469-152-11	FERRITE, EMI (SMD) (2012)			
L653	1-457-632-11	INDUCTOR	470uH		
		< RESISTOR >			
R171	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R172	1-216-833-11	METAL CHIP	10K	5%	1/10W
R173	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R174	1-216-833-11	METAL CHIP	10K	5%	1/10W
R175	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R176	1-216-821-11	METAL CHIP	1K	5%	1/10W
R177	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R178	1-216-841-11	METAL CHIP	47K	5%	1/10W
R271	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R272	1-216-833-11	METAL CHIP	10K	5%	1/10W
R273	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R274	1-216-833-11	METAL CHIP	10K	5%	1/10W
R275	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R276	1-216-821-11	METAL CHIP	1K	5%	1/10W
R277	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R278	1-216-841-11	METAL CHIP	47K	5%	1/10W
R320	1-216-845-11	METAL CHIP	100K	5%	1/10W
R323	1-216-845-11	METAL CHIP	100K	5%	1/10W
R324	1-216-845-11	METAL CHIP	100K	5%	1/10W
R325	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R326	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R327	1-216-864-11	SHORT CHIP	0		
R652	1-216-833-11	METAL CHIP	10K	5%	1/10W
R653	1-216-833-11	METAL CHIP	10K	5%	1/10W
R655	1-216-809-11	METAL CHIP	100	5%	1/10W
R658	1-216-809-11	METAL CHIP	100	5%	1/10W
R659	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
**********					
	A-1498-592-A	DISPLAY BOARD, COMPLETE **********			
		< CAPACITOR >			
C402	1-128-131-11	ELECT	22uF	20%	50V
C403	1-128-131-11	ELECT	22uF	20%	50V
C405	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C406	1-124-261-00	ELECT	10uF	20%	50V
C407	1-124-261-00	ELECT	10uF	20%	50V
C408	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C409	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C410	1-124-261-00	ELECT	10uF	20%	50V
C411	1-124-261-00	ELECT	10uF	20%	50V
C412	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C413	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C414	1-124-261-00	ELECT	10uF	20%	50V
C415	1-124-261-00	ELECT	10uF	20%	50V
C416	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C417	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C418	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C419	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C420	1-124-261-00	ELECT	10uF	20%	50V
C421	1-124-261-00	ELECT	10uF	20%	50V
C422	1-137-749-11	MYLAR	0.1uF		100V
C424	1-164-156-11	CERAMIC CHIP	0.1uF		25V

Ref. No.	Part No.	Description			Remark
C429	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C430	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C431	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C432	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C436	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C437	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C438	1-124-584-00	ELECT	100uF	20%	6.3V
C439	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C440	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C441	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C442	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C443	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C444	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C445	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C451	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C452	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C453	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C454	1-124-261-00	ELECT	10uF	20%	50V
		< CONNECTOR >			
CN401	1-815-552-11	PIN, CONNECTOR (PWB) 4P			
CNP402	1-568-854-11	CONNECTOR, FFC 11P			
CNP404	1-568-850-11	CONNECTOR, FFC 7P			
		< DIODE >			
D401	6-501-817-01	DIODE MA2J1110GLS0			
D402	6-501-817-01	DIODE MA2J1110GLS0			
D403	6-501-817-01	DIODE MA2J1110GLS0			
D404	6-501-817-01	DIODE MA2J1110GLS0			
D405	6-501-817-01	DIODE MA2J1110GLS0			
D406	6-501-817-01	DIODE MA2J1110GLS0			
D407	6-501-817-01	DIODE MA2J1110GLS0			
D408	6-501-176-01	DIODE UDZW-TE17-12B			
D410	6-502-348-01	LED SLI-343Y8CT32 (HDD)			
D411	6-502-348-01	LED SLI-343Y8CT32 (USB)			
D412	6-502-348-01	LED SLI-343Y8CT32 (CD)			
D413	6-502-348-01	LED SLI-343Y8CT32 (AUDIO IN)			
D414	6-502-348-01	LED SLI-343Y8CT32 (DMPORT)			
D415	6-502-348-01	LED SLI-343Y8CT32 (TUNER)			
		< FLUORESCENT INDICATOR TUBE >			
FL401	1-519-997-11	VACUUM FLUORESCENT DISPLAY			
		< IC >			
IC401	8-759-548-62	IC SN74LV123ANSR			
IC402	8-759-100-96	IC uPC4558G2			
IC403	A-1552-984-A	IC R5F3640DDFA (for SERVICE)			
IC404	6-702-302-01	IC TK11133CSCL-G			
		< TRANSISTOR >			
Q401	8-729-307-58	TRANSISTOR	2SC1775A-E		
Q402	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q403	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q404	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q405	8-729-230-27	TRANSISTOR	2SA1213Y-TE12L		
Q406	8-729-807-51	TRANSISTOR	2SD1623-S		
Q407	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q408	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q410	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q411	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		

DISPLAY **DMP**

Ref. No.	Part No.	Description			Remark
Q412	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q413	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q414	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q415	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
		< RESISTOR >			
R401	1-216-797-11	METAL CHIP	10	5%	1/10W
R402	1-216-797-11	METAL CHIP	10	5%	1/10W
R403	1-216-797-11	METAL CHIP	10	5%	1/10W
R404	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R405	1-216-797-11	METAL CHIP	10	5%	1/10W
R406	1-216-797-11	METAL CHIP	10	5%	1/10W
R407	1-216-797-11	METAL CHIP	10	5%	1/10W
R408	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R409	1-216-797-11	METAL CHIP	10	5%	1/10W
R410	1-216-797-11	METAL CHIP	10	5%	1/10W
R411	1-216-841-11	METAL CHIP	47K	5%	1/10W
R412	1-216-821-11	METAL CHIP	1K	5%	1/10W
R413	1-216-833-11	METAL CHIP	10K	5%	1/10W
R414	1-216-821-11	METAL CHIP	1K	5%	1/10W
R415	1-216-821-11	METAL CHIP	1K	5%	1/10W
R416	1-216-833-11	METAL CHIP	10K	5%	1/10W
R417	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R418	1-216-813-11	METAL CHIP	220	5%	1/10W
R420	1-216-833-11	METAL CHIP	10K	5%	1/10W
R421	1-216-821-11	METAL CHIP	1K	5%	1/10W
R422	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R423	1-216-821-11	METAL CHIP	1K	5%	1/10W
R424	1-216-833-11	METAL CHIP	10K	5%	1/10W
R425	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R427	1-216-833-11	METAL CHIP	10K	5%	1/10W
R429	1-216-805-11	METAL CHIP	47	5%	1/10W
R431	1-216-805-11	METAL CHIP	47	5%	1/10W
R432	1-216-805-11	METAL CHIP	47	5%	1/10W
R433	1-216-805-11	METAL CHIP	47	5%	1/10W
R434	1-216-833-11	METAL CHIP	10K	5%	1/10W
R435	1-216-821-11	METAL CHIP	1K	5%	1/10W
R440	1-216-837-11	METAL CHIP	22K	5%	1/10W
R441	1-216-821-11	METAL CHIP	1K	5%	1/10W
R442	1-216-821-11	METAL CHIP	1K	5%	1/10W
R443	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R444	1-216-841-11	METAL CHIP	47K	5%	1/10W
R445	1-216-841-11	METAL CHIP	47K	5%	1/10W
R446	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R447	1-216-801-11	METAL CHIP	22	5%	1/10W
R449	1-216-833-11	METAL CHIP	10K	5%	1/10W
R450	1-216-809-11	METAL CHIP	100	5%	1/10W
R451	1-216-833-11	METAL CHIP	10K	5%	1/10W
R452	1-216-809-11	METAL CHIP	100	5%	1/10W
R453	1-216-833-11	METAL CHIP	10K	5%	1/10W
R454	1-216-809-11	METAL CHIP	100	5%	1/10W
R455	1-216-833-11	METAL CHIP	10K	5%	1/10W
R456	1-216-864-11	SHORT CHIP	0		
R457	1-216-809-11	METAL CHIP	100	5%	1/10W
R458	1-216-833-11	METAL CHIP	10K	5%	1/10W
R459	1-216-809-11	METAL CHIP	100	5%	1/10W
R460	1-216-809-11	METAL CHIP	100	5%	1/10W
R461	1-216-833-11	METAL CHIP	10K	5%	1/10W
R462	1-216-833-11	METAL CHIP	10K	5%	1/10W
R464	1-216-809-11	METAL CHIP	100	5%	1/10W
R465	1-216-809-11	METAL CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remark
R466	1-216-809-11	METAL CHIP	100	5%	1/10W
R467	1-216-833-11	METAL CHIP	10K	5%	1/10W
R477	1-216-833-11	METAL CHIP	10K	5%	1/10W
R484	1-216-809-11	METAL CHIP	100	5%	1/10W
R486	1-216-845-11	METAL CHIP	100K	5%	1/10W
R489	1-216-849-11	METAL CHIP	220K	5%	1/10W
R490	1-216-849-11	METAL CHIP	220K	5%	1/10W
R495	1-216-833-11	METAL CHIP	10K	5%	1/10W
R497	1-216-833-11	METAL CHIP	10K	5%	1/10W
R499	1-216-805-11	METAL CHIP	47	5%	1/10W
R504	1-216-833-11	METAL CHIP	10K	5%	1/10W
R505	1-216-837-11	METAL CHIP	22K	5%	1/10W
R506	1-216-833-11	METAL CHIP	10K	5%	1/10W
R507	1-216-837-11	METAL CHIP	22K	5%	1/10W
R509	1-216-809-11	METAL CHIP	100	5%	1/10W
R531	1-216-813-11	METAL CHIP	220	5%	1/10W
R532	1-216-817-11	METAL CHIP	470	5%	1/10W
R536	1-216-813-11	METAL CHIP	220	5%	1/10W
R537	1-216-817-11	METAL CHIP	470	5%	1/10W
R541	1-216-813-11	METAL CHIP	220	5%	1/10W
R542	1-216-817-11	METAL CHIP	470	5%	1/10W
R546	1-216-813-11	METAL CHIP	220	5%	1/10W
R547	1-216-817-11	METAL CHIP	470	5%	1/10W
R552	1-216-813-11	METAL CHIP	220	5%	1/10W
R553	1-216-817-11	METAL CHIP	470	5%	1/10W
R556	1-216-813-11	METAL CHIP	220	5%	1/10W
R557	1-216-817-11	METAL CHIP	470	5%	1/10W
R563	1-216-833-11	METAL CHIP	10K	5%	1/10W
R564	1-216-833-11	METAL CHIP	10K	5%	1/10W
R565	1-216-833-11	METAL CHIP	10K	5%	1/10W
R566	1-216-833-11	METAL CHIP	10K	5%	1/10W
R567	1-216-833-11	METAL CHIP	10K	5%	1/10W
R568	1-216-833-11	METAL CHIP	10K	5%	1/10W
R569	1-216-833-11	METAL CHIP	10K	5%	1/10W
R576	1-216-833-11	METAL CHIP	10K	5%	1/10W
R577	1-216-837-11	METAL CHIP	22K	5%	1/10W
R578	1-216-845-11	METAL CHIP	100K	5%	1/10W
R579	1-216-837-11	METAL CHIP	22K	5%	1/10W
R580	1-216-833-11	METAL CHIP	10K	5%	1/10W
R581	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R582	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R583	1-216-849-11	METAL CHIP	220K	5%	1/10W
R584	1-216-845-11	METAL CHIP	100K	5%	1/10W
R585	1-216-845-11	METAL CHIP	100K	5%	1/10W
R586	1-216-849-11	METAL CHIP	220K	5%	1/10W
R587	1-216-833-11	METAL CHIP	10K	5%	1/10W
		< VIBRATOR >			
X401	1-814-062-21	VIBRATOR, CERAMIC (5MHz)			
**********					
	A-1498-593-A	DMP BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C129	1-126-193-11	ELECT CHIP	1uF	20%	50V
C130	1-126-193-11	ELECT CHIP	1uF	20%	50V
C139	1-126-193-11	ELECT CHIP	1uF	20%	50V
C229	1-126-193-11	ELECT CHIP	1uF	20%	50V
C230	1-126-193-11	ELECT CHIP	1uF	20%	50V

Ref. No.	Part No.	Description			Remark
C239	1-126-193-11	ELECT CHIP	1uF	20%	50V
C964	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C965	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C967	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C968	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C970	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C971	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C972	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
		< CONNECTOR >			
CN813	1-770-160-21	PIN, CONNECTOR (PC BOARD) 2P			
CNP812	1-784-863-51	CONNECTOR, FFC (LIF (NON-ZIF)) 11P			
		< DIODE >			
D801	6-500-848-01	DIODE MC2840-T112-1			
		< IC >			
IC305	8-759-100-96	IC uPC4558G2			
IC802	6-710-887-01	IC R5523N001B-TR-F			
		< JACK >			
J811	1-817-615-21	CONNECTOR, SQUARE TYPE (RECE) (DMPORT)			
		< COIL >			
L906	1-414-078-11	INDUCTOR	10uH		
		< RESISTOR >			
R119	1-216-837-11	METAL CHIP	22K	5%	1/10W
R120	1-216-837-11	METAL CHIP	22K	5%	1/10W
R121	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R122	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R219	1-216-837-11	METAL CHIP	22K	5%	1/10W
R220	1-216-837-11	METAL CHIP	22K	5%	1/10W
R221	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R222	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R970	1-216-864-11	SHORT CHIP	0		
R971	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R972	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R974	1-216-864-11	SHORT CHIP	0		
**********					
		HP JACK BOARD			
		**********			
		< CAPACITOR >			
C122	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C123	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C124	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C222	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C223	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C224	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C313	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C314	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
		< DIODE >			
D301	6-500-848-01	DIODE MC2840-T112-1			
D302	6-500-848-01	DIODE MC2840-T112-1			

Ref. No.	Part No.	Description			Remark
		< FERRITE BEAD/RESISTOR >			
FB101	1-469-324-21	FERRITE, EMI (SMD) (2012)			
FB201	1-469-324-21	FERRITE, EMI (SMD) (2012)			
FB301	1-469-324-21	FERRITE, EMI (SMD) (2012)			
FB302	1-469-324-21	FERRITE, EMI (SMD) (2012)			
FB303	1-216-821-11	METAL CHIP	1K	5%	1/10W
		< JACK >			
J301	1-815-629-21	JACK (AUDIO IN)			
J302	1-815-629-21	JACK (🎧)			
		< RESISTOR >			
R117	1-216-845-11	METAL CHIP	100K	5%	1/10W
R118	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R217	1-216-845-11	METAL CHIP	100K	5%	1/10W
R218	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
**********					
		KEY (FRONT) BOARD			
		**********			
		< CAPACITOR >			
C602	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C603	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C605	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
		< CONNECTOR >			
CNP601	1-784-727-11	CONNECTOR, FFC 5P			
		< IC >			
IC601	6-711-556-01	IC NJL24H400B-SA			
		< RESISTOR >			
R601	1-216-833-11	METAL CHIP	10K	5%	1/10W
R602	1-216-805-11	METAL CHIP	47	5%	1/10W
R603	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R604	1-216-833-11	METAL CHIP	10K	5%	1/10W
R605	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R606	1-216-821-11	METAL CHIP	1K	5%	1/10W
		< SWITCH >			
S601	1-762-875-21	SWITCH, KEYBOARD (⏏)			
S602	1-480-469-11	ENCODER, ROTARY (VOLUME)			
**********					
		KEY (L) BOARD			
		**********			
		< LED >			
D601	6-500-725-01	LED SLR-343VCT32 (I/⏻)			
		< TRANSISTOR >			
Q601	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
		< RESISTOR >			
R607	1-216-837-11	METAL CHIP	22K	5%	1/10W
R608	1-216-833-11	METAL CHIP	10K	5%	1/10W
R609	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R610	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R611	1-216-825-11	METAL CHIP	2.2K	5%	1/10W

KEY (L) **KEY (R)** **MAIN**

Ref. No.	Part No.	Description			Remark
R612	1-216-821-11	METAL CHIP	1K	5%	1/10W
R614	1-216-833-11	METAL CHIP	10K	5%	1/10W
R615	1-216-813-11	METAL CHIP	220	5%	1/10W
		< SWITCH >			
S603	1-762-875-21	SWITCH, KEYBOARD (HDD ▶II)			
S604	1-762-875-21	SWITCH, KEYBOARD (USB ▶II)			
S605	1-762-875-21	SWITCH, KEYBOARD (CD ▶II)			
S606	1-762-875-21	SWITCH, KEYBOARD (TUNER/BAND)			
S607	1-762-875-21	SWITCH, KEYBOARD (■)			
S608	1-762-875-21	SWITCH, KEYBOARD (⏮ ◀◀, TUNE –)			
S609	1-762-875-21	SWITCH, KEYBOARD (▶▶ ▷▷⏭, TUNE+)			
S610	1-762-875-21	SWITCH, KEYBOARD (I/⏻)			
**********					
		KEY (R) BOARD			
		**********			
		< RESISTOR >			
R616	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R617	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R618	1-216-821-11	METAL CHIP	1K	5%	1/10W
R619	1-216-841-11	METAL CHIP	47K	5%	1/10W
R620	1-216-837-11	METAL CHIP	22K	5%	1/10W
R621	1-216-833-11	METAL CHIP	10K	5%	1/10W
R622	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R623	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R624	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R625	1-216-821-11	METAL CHIP	1K	5%	1/10W
		< SWITCH >			
S611	1-762-875-21	SWITCH, KEYBOARD (OPTIONS)			
S612	1-762-875-21	SWITCH, KEYBOARD (TRANSFER)			
S613	1-762-875-21	SWITCH, KEYBOARD (HDD REC)			
S614	1-762-875-21	SWITCH, KEYBOARD (BACK)			
S615	1-762-875-21	SWITCH, KEYBOARD (FUNCTION)			
S616	1-762-875-21	SWITCH, KEYBOARD (←)			
S617	1-762-875-21	SWITCH, KEYBOARD (→)			
S618	1-762-875-21	SWITCH, KEYBOARD (↑)			
S619	1-762-875-21	SWITCH, KEYBOARD (↓)			
S620	1-762-875-21	SWITCH, KEYBOARD (ENTER)			
S621	1-762-875-21	SWITCH, KEYBOARD (TITLE UPDATE)			(EXCEPT UK)
S621	1-762-875-21	SWITCH, KEYBOARD (TITLE UPDATE/DAB AUTO SCAN) (UK)			
**********					
	A-1498-599-A	MAIN BOARD, COMPLETE (AEP)			
	A-1536-379-A	MAIN BOARD, COMPLETE (RU)			
	A-1536-382-A	MAIN BOARD, COMPLETE (UK)			
	A-1547-154-A	MAIN BOARD, COMPLETE (MX, AR)			
	A-1550-937-A	MAIN BOARD, COMPLETE (E51)			
	A-1550-944-A	MAIN BOARD, COMPLETE (AUS)			
		**********			
		< CAPACITOR >			
C101	1-126-960-11	ELECT	1uF	20%	50V
C102	1-126-960-11	ELECT	1uF	20%	50V
C103	1-126-960-11	ELECT	1uF	20%	50V
C105	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C106	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V

Ref. No.	Part No.	Description			Remark
C107	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C108	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C110	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C111	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C112	1-126-160-11	ELECT	1uF	20%	50V
C113	1-126-960-11	ELECT	1uF	20%	50V
C114	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C115	1-126-160-11	ELECT	1uF	20%	50V
C116	1-126-160-11	ELECT	1uF	20%	50V
C117	1-126-960-11	ELECT	1uF	20%	50V
C118	1-126-923-91	ELECT	220uF	20%	10V
C119	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C120	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C121	1-126-960-11	ELECT	1uF	20%	50V
C122	1-126-160-11	ELECT	1uF	20%	50V (UK)
C131	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C132	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C133	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C134	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C135	1-126-960-11	ELECT	1uF	20%	50V
C136	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C137	1-126-960-11	ELECT	1uF	20%	50V
C140	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C141	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C142	1-126-160-11	ELECT	1uF	20%	50V (UK)
C143	1-126-160-11	ELECT	1uF	20%	50V
C144	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C145	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C150	1-164-360-11	CERAMIC CHIP	0.1uF		16V (AUS)
C152	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C164	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C172	1-126-960-11	ELECT	1uF	20%	50V (AUS)
C201	1-126-960-11	ELECT	1uF	20%	50V
C202	1-126-960-11	ELECT	1uF	20%	50V
C203	1-126-160-11	ELECT	1uF	20%	50V
C205	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C206	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C207	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C208	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C210	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C211	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C212	1-126-160-11	ELECT	1uF	20%	50V
C213	1-126-960-11	ELECT	1uF	20%	50V
C214	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C215	1-126-160-11	ELECT	1uF	20%	50V
C216	1-126-160-11	ELECT	1uF	20%	50V
C217	1-126-960-11	ELECT	1uF	20%	50V
C218	1-126-923-91	ELECT	220uF	20%	10V
C219	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C220	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C221	1-126-960-11	ELECT	1uF	20%	50V
C222	1-126-160-11	ELECT	1uF	20%	50V (UK)
C231	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C232	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C233	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C234	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C235	1-126-960-11	ELECT	1uF	20%	50V
C236	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C237	1-126-960-11	ELECT	1uF	20%	50V
C240	1-164-360-11	CERAMIC CHIP	0.1uF		16V

Ref. No.	Part No.	Description			Remark
C241	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C242	1-126-160-11	ELECT	1uF	20%	50V (UK)
C243	1-126-160-11	ELECT	1uF	20%	50V
C244	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C245	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C250	1-164-360-11	CERAMIC CHIP	0.1uF		16V (AUS)
C252	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C264	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C272	1-126-960-11	ELECT	1uF	20%	50V (AUS)
C301	1-126-933-11	ELECT	100uF	20%	16V
C302	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C303	1-126-964-11	ELECT	10uF	20%	50V
C304	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C305	1-126-925-91	ELECT	470uF	20%	10V
C306	1-126-933-11	ELECT	100uF	20%	16V
C307	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C308	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C309	1-126-933-11	ELECT	100uF	20%	16V
C310	1-126-923-91	ELECT	220uF	20%	10V
C311	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C315	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C317	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C321	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C322	1-125-972-91	ELECT	100uF	20%	16V
C323	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C324	1-125-972-91	ELECT	100uF	20%	16V
C352	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C353	1-126-933-11	ELECT	100uF	20%	16V
C368	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C801	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C802	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C803	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C804	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C806	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C808	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C809	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C810	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C811	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C812	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C813	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C814	1-164-360-11	CERAMIC CHIP	0.1uF		16V (UK)
C815	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C816	1-104-905-11	DOUBLE LAYER	0.22F		5.5V
C817	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C818	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C819	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C820	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C823	1-126-176-11	ELECT	220uF	20%	10V
C824	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C825	1-126-176-11	ELECT	220uF	20%	10V
C826	1-126-176-11	ELECT	220uF	20%	10V
C840	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C844	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C855	1-126-933-11	ELECT	100uF	20%	16V
C871	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C981	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C982	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C983	1-126-157-11	ELECT	10uF	20%	16V
C984	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C985	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C986	1-126-157-11	ELECT	10uF	20%	16V
C987	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C988	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C989	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C990	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C991	1-126-176-11	ELECT	220uF	20%	10V
C992	1-126-176-11	ELECT	220uF	20%	10V
		< CONNECTOR >			
CN303	1-815-449-11	PIN, CONNECTOR (PWB) 8P			
CN309	1-815-444-11	PIN, CONNECTOR (PWB) 3P (AUS)			
CNP301	1-568-826-11	CONNECTOR, FFC 7P			
CNP302	1-779-273-11	CONNECTOR, FFC (LIF (NON-ZIF)) 5P			
CNP801	1-568-830-11	CONNECTOR, FFC 11P (AEP, UK)			
CNP802	1-568-830-11	CONNECTOR, FFC 11P (UK)			
CNP803	1-779-279-11	CONNECTOR, FFC (LIF (NON-ZIF)) 11P			
CNP804	1-779-556-21	CONNECTOR, FFC (LIF (NON-ZIF)) 19P			
CNP805	1-779-554-21	CONNECTOR, FFC (LIF (NON-ZIF)) 17P			
CNP806	1-779-542-21	CONNECTOR, FFC (LIF (NON-ZIF)) 5P			
CNP807	1-568-830-11	CONNECTOR, FFC 11P			
CNP808	1-784-770-11	CONNECTOR, FFC 9P (EXCEPT AEP, UK)			
CNP810	1-784-766-11	CONNECTOR, FFC 5P			
CNP814	1-784-770-11	CONNECTOR, FFC 9P			
		< DIODE >			
D801	6-501-817-01	DIODE MA2J1110GLS0			
D803	8-719-000-07	DIODE MC2836			
D804	6-501-738-01	DIODE MAZ8062GMLS0			
D805	6-501-817-01	DIODE MA2J1110GLS0			
D806	8-719-085-36	DIODE 11EQS04-TB5			
D807	8-719-063-79	DIODE 1N4002B			
D808	8-719-063-79	DIODE 1N4002B			
D809	6-501-817-01	DIODE MA2J1110GLS0			
		< GROUND TERMINAL >			
* EB380	1-537-738-21	TERMINAL, EARTH			
		< JUMPER RESISTOR >			
FB104	1-216-864-11	SHORT CHIP	0		
FB204	1-216-864-11	SHORT CHIP	0		
FB205	1-216-864-11	SHORT CHIP	0		
		< IC >			
IC301	8-759-545-66	IC NJM3414AMP (TE2)			
IC302	6-712-055-01	IC BD3499FV-E2			
IC303	8-759-100-96	IC uPC4558G2 (AUS)			
IC306	8-759-100-96	IC uPC4558G2			
IC307	8-759-100-96	IC uPC4558G2			
IC351	8-759-525-25	IC BU4052BCF-E2			
IC801	6-701-680-01	IC PST3629NR			
IC803	A-1552-982-A	IC R5F3640DDFA (for SERVICE) (UK)			
IC803	A-1552-983-A	IC R5F3640DDFA (for SERVICE) (EXCEPT UK)			
IC805	8-759-598-69	IC BA6956AN			
IC981	6-702-302-01	IC TK11133CSCL-G			
IC982	6-702-302-01	IC TK11133CSCL-G			
		< JUMPER RESISTOR >			
JR801	1-216-864-11	SHORT CHIP	0		
JR802	1-216-864-11	SHORT CHIP	0		
JR803	1-216-864-11	SHORT CHIP	0		

MAIN

Ref. No.	Part No.	Description			Remark
		< COIL >			
L803	1-410-509-11	INDUCTOR	10uH		
L804	1-410-509-11	INDUCTOR	10uH		
L806	1-410-509-11	INDUCTOR	10uH		
L807	1-410-509-11	INDUCTOR	10uH (UK)		
		< TRANSISTOR >			
Q102	6-550-889-01	TRANSISTOR	2SC5938-T112-1B		
Q111	6-550-889-01	TRANSISTOR	2SC5938-T112-1B (AUS)		
Q115	6-550-889-01	TRANSISTOR	2SC5938-T112-1B		
Q202	6-550-889-01	TRANSISTOR	2SC5938-T112-1B		
Q211	6-550-889-01	TRANSISTOR	2SC5938-T112-1B (AUS)		
Q215	6-550-889-01	TRANSISTOR	2SC5938-T112-1B		
Q301	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q302	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q303	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q304	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q305	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q306	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q307	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q308	8-729-027-23	TRANSISTOR	DTA114EKA-T146 (AUS)		
Q309	8-729-027-43	TRANSISTOR	DTC114EKA-T146 (AUS)		
Q310	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q801	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q802	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		
Q803	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q804	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
		< RESISTOR >			
R101	1-216-825-11	METAL CHIP	2.2K	5% 1/10W	
R103	1-216-841-11	METAL CHIP	47K	5% 1/10W	(AUS)
R104	1-216-837-11	METAL CHIP	22K	5% 1/10W	
R105	1-216-853-11	METAL CHIP	470K	5% 1/10W	
R106	1-216-833-11	METAL CHIP	10K	5% 1/10W	
R107	1-216-864-11	SHORT CHIP	0		
R108	1-216-841-11	METAL CHIP	47K	5% 1/10W	
R109	1-216-833-11	METAL CHIP	10K	5% 1/10W	
R110	1-216-845-11	METAL CHIP	100K	5% 1/10W	
R111	1-216-821-11	METAL CHIP	1K	5% 1/10W	
R112	1-216-841-11	METAL CHIP	47K	5% 1/10W	
R113	1-216-864-11	SHORT CHIP	0		
R114	1-216-864-11	SHORT CHIP	0 (UK)		
R115	1-216-837-11	METAL CHIP	22K	5% 1/10W	
R116	1-216-864-11	SHORT CHIP	0		
R118	1-216-833-11	METAL CHIP	10K	5% 1/10W	
R119	1-216-833-11	METAL CHIP	10K	5% 1/10W	
R120	1-216-821-11	METAL CHIP	1K	5% 1/10W	
R121	1-216-845-11	METAL CHIP	100K	5% 1/10W	(AEP, UK, RU, AUS)
R121	1-216-849-11	METAL CHIP	220K	5% 1/10W	(E51, MX, AR)
R122	1-216-809-11	METAL CHIP	100	5% 1/10W	(AUS)
R123	1-216-829-11	METAL CHIP	4.7K	5% 1/10W	
R124	1-216-829-11	METAL CHIP	4.7K	5% 1/10W	
R125	1-216-837-11	METAL CHIP	22K	5% 1/10W	
R126	1-216-833-11	METAL CHIP	10K	5% 1/10W	(AEP, UK, RU, AUS)
R126	1-216-837-11	METAL CHIP	22K	5% 1/10W	(E51, MX, AR)
R128	1-216-821-11	METAL CHIP	1K	5% 1/10W	(UK)
R129	1-216-841-11	METAL CHIP	47K	5% 1/10W	(UK)
R131	1-216-821-11	METAL CHIP	1K	5% 1/10W	
R132	1-216-841-11	METAL CHIP	47K	5% 1/10W	
R133	1-216-821-11	METAL CHIP	1K	5% 1/10W	
R134	1-216-841-11	METAL CHIP	47K	5% 1/10W	
R135	1-216-833-11	METAL CHIP	10K	5% 1/10W	
R136	1-216-805-11	METAL CHIP	47	5% 1/10W	
R137	1-216-829-11	METAL CHIP	4.7K	5% 1/10W	
R139	1-216-845-11	METAL CHIP	100K	5% 1/10W	
R141	1-216-829-11	METAL CHIP	4.7K	5% 1/10W	(AUS)
R143	1-216-829-11	METAL CHIP	4.7K	5% 1/10W	(AUS)
R144	1-216-864-11	SHORT CHIP	0		
R150	1-216-845-11	METAL CHIP	100K	5% 1/10W	
R151	1-216-845-11	METAL CHIP	100K	5% 1/10W	
R152	1-216-845-11	METAL CHIP	100K	5% 1/10W	
R153	1-216-845-11	METAL CHIP	100K	5% 1/10W	
R154	1-216-864-11	SHORT CHIP	0 (AUS)		
R158	1-216-809-11	METAL CHIP	100	5% 1/10W	
R159	1-216-821-11	METAL CHIP	1K	5% 1/10W	(AUS)
R201	1-216-825-11	METAL CHIP	2.2K	5% 1/10W	
R203	1-216-841-11	METAL CHIP	47K	5% 1/10W	(AUS)
R204	1-216-837-11	METAL CHIP	22K	5% 1/10W	
R205	1-216-853-11	METAL CHIP	470K	5% 1/10W	
R206	1-216-833-11	METAL CHIP	10K	5% 1/10W	
R207	1-216-864-11	SHORT CHIP	0		
R208	1-216-841-11	METAL CHIP	47K	5% 1/10W	
R209	1-216-833-11	METAL CHIP	10K	5% 1/10W	
R210	1-216-845-11	METAL CHIP	100K	5% 1/10W	
R211	1-216-821-11	METAL CHIP	1K	5% 1/10W	
R212	1-216-841-11	METAL CHIP	47K	5% 1/10W	
R213	1-216-864-11	SHORT CHIP	0		
R214	1-216-864-11	SHORT CHIP	0 (UK)		
R215	1-216-837-11	METAL CHIP	22K	5% 1/10W	
R216	1-216-864-11	SHORT CHIP	0		
R218	1-216-833-11	METAL CHIP	10K	5% 1/10W	
R219	1-216-833-11	METAL CHIP	10K	5% 1/10W	
R220	1-216-821-11	METAL CHIP	1K	5% 1/10W	
R221	1-216-845-11	METAL CHIP	100K	5% 1/10W	(AEP, UK, RU, AUS)
R221	1-216-849-11	METAL CHIP	220K	5% 1/10W	(E51, MX, AR)
R222	1-216-809-11	METAL CHIP	100	5% 1/10W	(AUS)
R223	1-216-829-11	METAL CHIP	4.7K	5% 1/10W	
R224	1-216-829-11	METAL CHIP	4.7K	5% 1/10W	
R225	1-216-837-11	METAL CHIP	22K	5% 1/10W	
R226	1-216-833-11	METAL CHIP	10K	5% 1/10W	(AEP, UK, RU, AUS)
R226	1-216-837-11	METAL CHIP	22K	5% 1/10W	(E51, MX, AR)
R228	1-216-821-11	METAL CHIP	1K	5% 1/10W	(UK)
R229	1-216-841-11	METAL CHIP	47K	5% 1/10W	(UK)

Ref. No.	Part No.	Description			Remark
R231	1-216-821-11	METAL CHIP	1K	5%	1/10W
R232	1-216-841-11	METAL CHIP	47K	5%	1/10W
R233	1-216-821-11	METAL CHIP	1K	5%	1/10W
R234	1-216-841-11	METAL CHIP	47K	5%	1/10W
R235	1-216-833-11	METAL CHIP	10K	5%	1/10W
R236	1-216-805-11	METAL CHIP	47	5%	1/10W
R237	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R239	1-216-845-11	METAL CHIP	100K	5%	1/10W
R241	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (AUS)
R243	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (AUS)
R244	1-216-864-11	SHORT CHIP	0		
R250	1-216-845-11	METAL CHIP	100K	5%	1/10W
R251	1-216-845-11	METAL CHIP	100K	5%	1/10W
R252	1-216-845-11	METAL CHIP	100K	5%	1/10W
R253	1-216-845-11	METAL CHIP	100K	5%	1/10W
R254	1-216-864-11	SHORT CHIP	0 (AUS)		
R258	1-216-809-11	METAL CHIP	100	5%	1/10W
R259	1-216-821-11	METAL CHIP	1K	5%	1/10W (AUS)
R301	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R302	1-216-864-11	SHORT CHIP	0		
R305	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R306	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R307	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R312	1-216-864-11	SHORT CHIP	0		
R314	1-216-864-11	SHORT CHIP	0 (AUS)		
R315	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R316	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R319	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R321	1-216-833-11	METAL CHIP	10K	5%	1/10W
R322	1-216-833-11	METAL CHIP	10K	5%	1/10W
R351	1-216-833-11	METAL CHIP	10K	5%	1/10W
R352	1-216-833-11	METAL CHIP	10K	5%	1/10W
R353	1-216-833-11	METAL CHIP	10K	5%	1/10W
R701	1-216-841-11	METAL CHIP	47K	5%	1/10W
R702	1-216-821-11	METAL CHIP	1K	5%	1/10W (AUS)
R702	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (RU, E51, MX, AR)
R703	1-216-817-11	METAL CHIP	470	5%	1/10W (AUS)
R703	1-216-864-11	SHORT CHIP	0 (RU, E51, MX, AR)		
R704	1-216-809-11	METAL CHIP	100	5%	1/10W (RU)
R704	1-216-821-11	METAL CHIP	1K	5%	1/10W (AEP, UK, E51, MX, AR)
R704	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (AUS)
R705	1-216-805-11	METAL CHIP	47	5%	1/10W (RU)
R705	1-216-864-11	SHORT CHIP	0 (EXCEPT RU)		
R706	1-216-821-11	METAL CHIP	1K	5%	1/10W
R707	1-216-833-11	METAL CHIP	10K	5%	1/10W
R708	1-216-853-11	METAL CHIP	470K	5%	1/10W
R709	1-216-833-11	METAL CHIP	10K	5%	1/10W
R710	1-216-833-11	METAL CHIP	10K	5%	1/10W
R711	1-216-833-11	METAL CHIP	10K	5%	1/10W
R712	1-216-821-11	METAL CHIP	1K	5%	1/10W
R713	1-216-833-11	METAL CHIP	10K	5%	1/10W
R714	1-216-821-11	METAL CHIP	1K	5%	1/10W
R716	1-216-821-11	METAL CHIP	1K	5%	1/10W
R800	1-216-821-11	METAL CHIP	1K	5%	1/10W
R801	1-216-864-11	SHORT CHIP	0		
R802	1-216-864-11	SHORT CHIP	0		
R803	1-216-864-11	SHORT CHIP	0		
R804	1-216-821-11	METAL CHIP	1K	5%	1/10W (UK)
R805	1-216-821-11	METAL CHIP	1K	5%	1/10W (UK)
R806	1-216-821-11	METAL CHIP	1K	5%	1/10W (UK)
R807	1-216-821-11	METAL CHIP	1K	5%	1/10W (UK)
R808	1-216-864-11	SHORT CHIP	0		
R809	1-216-864-11	SHORT CHIP	0		
R810	1-216-864-11	SHORT CHIP	0		
R811	1-216-864-11	SHORT CHIP	0		
R812	1-216-864-11	SHORT CHIP	0		
R813	1-216-864-11	SHORT CHIP	0 (UK)		
R814	1-216-864-11	SHORT CHIP	0 (UK)		
R815	1-216-864-11	SHORT CHIP	0 (UK)		
R816	1-216-864-11	SHORT CHIP	0 (UK)		
R817	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R818	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R819	1-216-821-11	METAL CHIP	1K	5%	1/10W
R820	1-216-833-11	METAL CHIP	10K	5%	1/10W
R821	1-216-864-11	SHORT CHIP	0		
R822	1-216-864-11	SHORT CHIP	0		
R823	1-216-864-11	SHORT CHIP	0		
R824	1-216-864-11	SHORT CHIP	0		
R825	1-216-864-11	SHORT CHIP	0		
R826	1-216-864-11	SHORT CHIP	0		
R827	1-216-864-11	SHORT CHIP	0		
R828	1-216-864-11	SHORT CHIP	0		
R829	1-216-821-11	METAL CHIP	1K	5%	1/10W
R830	1-216-833-11	METAL CHIP	10K	5%	1/10W
R831	1-216-833-11	METAL CHIP	10K	5%	1/10W
R832	1-216-821-11	METAL CHIP	1K	5%	1/10W
R833	1-216-833-11	METAL CHIP	10K	5%	1/10W
R834	1-216-833-11	METAL CHIP	10K	5%	1/10W
R835	1-216-845-11	METAL CHIP	100K	5%	1/10W
R836	1-216-821-11	METAL CHIP	1K	5%	1/10W
R837	1-216-821-11	METAL CHIP	1K	5%	1/10W
R838	1-216-821-11	METAL CHIP	1K	5%	1/10W
R839	1-216-809-11	METAL CHIP	100	5%	1/10W (AEP, UK)
R840	1-216-833-11	METAL CHIP	10K	5%	1/10W
R841	1-216-849-11	METAL CHIP	220K	5%	1/10W
R842	1-216-864-11	SHORT CHIP	0		
R843	1-216-864-11	SHORT CHIP	0		
R844	1-216-833-11	METAL CHIP	10K	5%	1/10W
R845	1-216-809-11	METAL CHIP	100	5%	1/10W (AEP, UK)
R846	1-216-833-11	METAL CHIP	10K	5%	1/10W (EXCEPT AEP, UK)
R847	1-216-841-11	METAL CHIP	47K	5%	1/10W
R848	1-216-821-11	METAL CHIP	1K	5%	1/10W
R849	1-216-821-11	METAL CHIP	1K	5%	1/10W
R850	1-216-821-11	METAL CHIP	1K	5%	1/10W
R851	1-216-821-11	METAL CHIP	1K	5%	1/10W
R852	1-216-821-11	METAL CHIP	1K	5%	1/10W

MAIN **MOTOR** **POWER**

Ref. No.	Part No.	Description			Remark
R853	1-216-821-11	METAL CHIP	1K	5%	1/10W
R854	1-216-821-11	METAL CHIP	1K	5%	1/10W
R855	1-216-821-11	METAL CHIP	1K	5%	1/10W
R856	1-216-809-11	METAL CHIP	100	5%	1/10W
R857	1-216-809-11	METAL CHIP	100	5%	1/10W
R858	1-216-809-11	METAL CHIP	100	5%	1/10W
R859	1-216-821-11	METAL CHIP	1K	5%	1/10W
R860	1-216-833-11	METAL CHIP	10K	5%	1/10W
R861	1-216-821-11	METAL CHIP	1K	5%	1/10W
R862	1-216-821-11	METAL CHIP	1K	5%	1/10W
R863	1-216-821-11	METAL CHIP	1K	5%	1/10W
R864	1-216-833-11	METAL CHIP	10K	5%	1/10W
R865	1-216-833-11	METAL CHIP	10K	5%	1/10W
R866	1-216-821-11	METAL CHIP	1K	5%	1/10W
R867	1-216-821-11	METAL CHIP	1K	5%	1/10W
R868	1-216-821-11	METAL CHIP	1K	5%	1/10W
R869	1-216-833-11	METAL CHIP	10K	5%	1/10W
R870	1-216-833-11	METAL CHIP	10K	5%	1/10W
R871	1-216-821-11	METAL CHIP	1K	5%	1/10W
R872	1-216-821-11	METAL CHIP	1K	5%	1/10W
R873	1-216-833-11	METAL CHIP	10K	5%	1/10W
R874	1-216-833-11	METAL CHIP	10K	5%	1/10W
R875	1-216-833-11	METAL CHIP	10K	5%	1/10W
R876	1-216-833-11	METAL CHIP	10K	5%	1/10W
R877	1-216-833-11	METAL CHIP	10K	5%	1/10W (EXCEPT AEP, UK)
R878	1-216-809-11	METAL CHIP	100	5%	1/10W
R879	1-216-833-11	METAL CHIP	10K	5%	1/10W
R880	1-216-821-11	METAL CHIP	1K	5%	1/10W
R881	1-216-833-11	METAL CHIP	10K	5%	1/10W
R882	1-216-821-11	METAL CHIP	1K	5%	1/10W
R883	1-216-821-11	METAL CHIP	1K	5%	1/10W
R884	1-216-821-11	METAL CHIP	1K	5%	1/10W
R885	1-216-821-11	METAL CHIP	1K	5%	1/10W
R886	1-216-821-11	METAL CHIP	1K	5%	1/10W
R887	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R888	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R889	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R890	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R891	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R892	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R893	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R894	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R895	1-216-821-11	METAL CHIP	1K	5%	1/10W
R896	1-216-821-11	METAL CHIP	1K	5%	1/10W
R897	1-216-821-11	METAL CHIP	1K	5%	1/10W
R898	1-216-833-11	METAL CHIP	10K	5%	1/10W
R899	1-216-841-11	METAL CHIP	47K	5%	1/10W
R981	1-216-821-11	METAL CHIP	1K	5%	1/10W
		< VIBRATOR >			
X801	1-814-067-11	OSCILLATOR, CRYSTAL (32.768kHz)			
X802	1-814-062-21	VIBRATOR, CERAMIC (5MHz)			
**********					
		MOTOR BOARD			
		**********			
		< CONNECTOR >			
CN001	1-779-542-21	CONNECTOR, FFC (LIF (NON-ZIF)) 5P			

Ref. No.	Part No.	Description			Remark
		< SWITCH >			
S001	1-786-514-21	SWITCH, LEVER (SLIDE) (CD TRAY OPEN.CLOSE DETECT)			
**********					
	A-1498-601-A	POWER BOARD, COMPLETE (EXCEPT MX, E51)			
	A-1547-194-A	POWER BOARD, COMPLETE (MX)			
	A-1550-939-A	POWER BOARD, COMPLETE (E51)			
		**********			
		< CAPACITOR >			
⚠ C01	1-165-529-11	MYLAR	0.22uF	10	275V
⚠ C02	1-165-528-11	MYLAR	0.1uF	10	275V
⚠ C03	1-119-886-51	CERAMIC	470PF	10%	250V
⚠ C04	1-119-886-51	CERAMIC	470PF	10%	250V
⚠ C05	1-114-113-31	ELECT	270uF	20%	250V (E51, MX)
⚠ C05	1-114-384-31	ELECT	150uF	20%	400V (EXCEPT MX, E51)
⚠ C06	1-114-113-31	ELECT	270uF	20%	250V (E51, MX)
⚠ C07	1-126-964-91	ELECT	10uF	20%	50V
⚠ C08	1-162-966-91	CERAMIC CHIP	0.0022uF	10%	50V
⚠ C10	1-164-004-91	CERAMIC CHIP	0.1uF	10%	25V
⚠ C11	1-100-399-11	FILM	33000PF	3%	1KV
⚠ C12	1-117-699-51	CERAMIC	0.001uF		250V
⚠ C13	1-126-950-91	ELECT	330uF	20%	35V
⚠ C14	1-107-824-81	CERAMIC	220PF	5%	1KV
⚠ C15	1-107-824-81	CERAMIC	220PF	5%	1KV
⚠ C16	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
⚠ C17	1-162-970-91	CERAMIC CHIP	0.01uF	10%	25V
⚠ C18	1-163-275-91	CERAMIC CHIP	0.001uF	5%	50V
⚠ C19	1-126-964-91	ELECT	10uF	20%	50V
⚠ C20	1-126-963-91	ELECT	4.7uF	20%	50V
⚠ C21	1-115-339-91	CERAMIC CHIP	0.1uF	10%	50V
⚠ C22	1-162-964-91	CERAMIC CHIP	0.001uF	10%	50V
⚠ C23	1-162-970-91	CERAMIC CHIP	0.01uF	10%	25V
⚠ C24	1-126-947-91	ELECT	47uF	20%	35V
⚠ C25	1-115-340-91	CERAMIC CHIP	0.22uF	10%	25V
C903	1-137-649-31	ELECT	220uF	20%	10V
C904	1-165-722-11	ELECT	100uF	20%	10V
C907	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C908	1-128-955-11	ELECT	2200uF	20%	25V
C909	1-112-231-11	ELECT	2200uF	20%	16V
C910	1-165-722-11	ELECT	100uF	20%	10V
C911	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C912	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C915	1-126-964-11	ELECT	10uF	20%	50V
C917	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C918	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C951	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C962	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C963	1-100-717-91	CERAMIC CHIP	1uF		16V
C966	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
		< CONNECTOR >			
CN01	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
CN901	1-815-446-11	PIN, CONNECTOR (PWB) 5P			
CN909	1-815-450-11	PIN, CONNECTOR (PWB) 9P			
CNP902	1-784-766-11	CONNECTOR, FFC 5P			

Ref. No.	Part No.	Description			Remark
		< DIODE >			
⚠ D01	8-719-077-77	DIODE	D3SB60F3		
⚠ D02	8-719-081-58	DIODE	S2V60-TA (E51, MX)		
⚠ D03	8-719-081-58	DIODE	S2V60-TA (E51, MX)		
⚠ D04	8-719-073-23	DIODE	ST02D-200TA		
⚠ D06	6-500-567-31	DIODE	10ERB20-TB3		
⚠ D09	6-500-137-01	DIODE	BAT54HT1		
⚠ D10	6-501-178-01	DIODE	UDZW-TE17-15B		
⚠ D11	8-719-979-64	DIODE	UF4005/23		
⚠ D12	6-501-178-01	DIODE	UDZW-TE17-15B		
⚠ D13	6-500-567-31	DIODE	10ERB20-TB3		
D901	6-500-567-31	DIODE	10ERB20-TB3		
D902	6-501-518-01	DIODE	RB085T-90		
D903	8-719-082-75	DIODE	FCH08A10		
D904	8-719-048-52	DIODE	MTZJ-T-77-20D		
D907	8-719-071-26	DIODE	HZU18B3TRF		
D923	6-500-567-31	DIODE	10ERB20-TB3		
		< GROUND TERMINAL >			
* EB02	1-537-738-21	TERMINAL, EARTH			
		< FUSE >			
⚠ F01	1-576-232-51	FUSE (T5AL/250V)			
		< FERRITE BEAD/JUMPER RESISTOR >			
⚠ FB01	1-410-397-31	FERRITE	1.1uH		
FB901	1-216-864-11	SHORT CHIP	0		
		< FUSE HOLDER >			
⚠ FH01	1-533-217-41	FUSE HOLDER			
⚠ FH02	1-533-217-41	FUSE HOLDER			
		< IC >			
⚠ IC01	6-708-726-01	IC	MIP2F20MS1SO		
⚠ IC02	6-707-749-01	IC	CXD9841P		
⚠ IC901	6-705-280-01	IC	FAN431AZXA		
		< COIL >			
L901	1-412-525-31	INDUCTOR	10uH		
		< PHOTO COUPLER >			
⚠ PC01	6-600-187-01	PHOTO COUPLER	PC123Y22JOOF		
⚠ PC03	6-600-187-01	PHOTO COUPLER	PC123Y22JOOF		
⚠ PC04	6-600-187-01	PHOTO COUPLER	PC123Y22JOOF		
		< TRANSISTOR >			
⚠ Q01	6-551-302-11	FET	2SK3561		
⚠ Q02	6-551-302-11	FET	2SK3561		
⚠ Q03	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q901	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q902	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q903	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		
Q908	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
		< RESISTOR >			
⚠ R01	1-219-512-91	METAL	2.2M	5%	1/2W F
⚠ R03	1-219-759-22	METAL	1M	5%	1/2W F (E51)
⚠ R04	1-219-759-22	METAL	1M	5%	1/2W F (E51)
⚠ R05	1-249-401-81	CARBON	47	5%	1/4W F
⚠ R06	1-216-845-91	METAL CHIP	100K	5%	1/10W
⚠ R07	1-216-853-91	METAL CHIP	470K	5%	1/10W
⚠ R08	1-216-833-91	METAL CHIP	10K	5%	1/10W
⚠ R09	1-216-829-91	METAL CHIP	4.7K	5%	1/10W
⚠ R12	1-249-381-81	CARBON	1	5%	1/4W F
⚠ R13	1-243-661-71	METAL	0.1	5%	2W F
⚠ R14	1-216-833-91	METAL CHIP	10K	5%	1/10W
⚠ R15	1-216-833-91	METAL CHIP	10K	5%	1/10W
⚠ R16	1-216-797-91	METAL CHIP	10	5%	1/10W
⚠ R17	1-216-797-91	METAL CHIP	10	5%	1/10W
⚠ R20	1-245-502-31	METAL	4.7M	2%	1/4W F
⚠ R21	1-245-502-31	METAL	4.7M	2%	1/4W F
⚠ R22	1-218-907-91	METAL CHIP	330K	0.5%	1/10W
⚠ R23	1-218-899-91	METAL CHIP	150K	0.5%	1/16W
⚠ R24	1-216-821-91	METAL CHIP	1K	5%	1/10W
⚠ R26	1-218-911-91	METAL CHIP	470K	0.5%	1/10W
⚠ R27	1-218-881-91	METAL CHIP	27K	0.5%	1/10W
⚠ R28	1-218-887-91	METAL CHIP	47K	0.5%	1/10W
⚠ R29	1-216-864-91	SHORT CHIP	0		
⚠ R30	1-211-989-91	METAL CHIP	68	0.5%	1/10W
⚠ R31	1-218-823-91	METAL CHIP	100	0.5%	1/10W
⚠ R32	1-249-417-81	CARBON	1K	5%	1/4W F
⚠ R33	1-247-694-91	CARBON	33	5%	1/4W F
⚠ R34	1-216-821-91	METAL CHIP	1K	5%	1/10W
R313	1-216-821-11	METAL CHIP	1K	5%	1/10W
R901	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W
R902	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R903	1-216-821-11	METAL CHIP	1K	5%	1/10W
R904	1-216-817-11	METAL CHIP	470	5%	1/10W
R905	1-216-805-11	METAL CHIP	47	5%	1/10W
R906	1-218-887-11	METAL CHIP	47K	0.5%	1/10W
R907	1-216-817-11	METAL CHIP	470	5%	1/10W
R908	1-216-821-11	METAL CHIP	1K	5%	1/10W
R909	1-216-845-11	METAL CHIP	100K	5%	1/10W
R910	1-216-841-11	METAL CHIP	47K	5%	1/10W
R911	1-216-833-11	METAL CHIP	10K	5%	1/10W
R912	1-216-833-11	METAL CHIP	10K	5%	1/10W
R913	1-216-817-11	METAL CHIP	470	5%	1/10W
R914	1-216-833-11	METAL CHIP	10K	5%	1/10W
R915	1-216-821-11	METAL CHIP	1K	5%	1/10W
R919	1-216-821-11	METAL CHIP	1K	5%	1/10W
R968	1-216-845-11	METAL CHIP	100K	5%	1/10W
R969	1-216-833-11	METAL CHIP	10K	5%	1/10W
		< SWITCH >			
⚠ S1	1-762-753-11	SWITCH, VOLTAGE SELECTION (VOLTAGE SELECTOR) (E51)			
		< COIL/TRANSFORMER >			
⚠ T01	1-457-125-21	COIL, LINE FILTER (E51, MX)			
⚠ T01	1-457-326-21	COIL, LINE FILTER (EXCEPT MX, E51)			
⚠ T02	1-443-942-11	TRANSFORMER, DC-DC CONVERTER			
⚠ T03	1-445-313-11	CONVERTER TRANSFORMER			
		< THERMISTOR >			
⚠ TH01	1-802-075-11	THERMISTOR, NTC (EXCEPT MX, E51)			
⚠ TH01	1-805-901-11	THERMISTOR, NTC (E51, MX)			

POWER **SP TERMINAL** **USB JACK** **USB MICOM**

Ref. No.	Part No.	Description	Remark
⚠ TH02	1-805-901-11	THERMISTOR, NTC (E51, MX)	
		< VARISTOR >	
⚠ VR01	1-805-481-21	VARISTOR (MX)	
⚠ VR01	1-805-482-11	VARISTOR (EXCEPT MX)	
⚠ VR002	1-802-094-21	VARISTOR (E51)	
⚠ VR003	1-802-094-21	VARISTOR (E51)	

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SP TERMINAL BOARD
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Ref. No.	Part No.	Description			Remark
		< CAPACITOR >			
C125	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V (AUS)
C126	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (AUS)
C168	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C169	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C225	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V (AUS)
C226	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (AUS)
C268	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C269	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C316	1-164-156-11	CERAMIC CHIP	0.1uF		25V (AUS)
		< CONNECTOR >			
CN306	1-815-445-11	PIN, CONNECTOR (PWB) 4P			
		< DIODE >			
D303	6-500-848-01	DIODE MC2840-T112-1 (AUS)			
		< JUMPER RESISTOR >			
FB110	1-216-864-11	SHORT CHIP	0 (AUS)		
FB210	1-216-864-11	SHORT CHIP	0 (AUS)		
FB310	1-216-864-11	SHORT CHIP	0 (AUS)		
		< JACK >			
J303	1-780-639-11	TERMINAL BOARD (SPEAKER) 2P (SPEAKER)			
J304	1-778-940-11	JACK 2P (AUDIO OUT) (AUS)			

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USB JACK BOARD
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Ref. No.	Part No.	Description			Remark
		< CAPACITOR >			
C851	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C852	1-112-746-11	CERAMIC CHIP	4.7uF	10%	6.3V
C855	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C856	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
		< DIODE >			
D851	6-500-848-01	DIODE MC2840-T112-1			
D852	6-500-848-01	DIODE MC2840-T112-1			
D853	6-500-848-01	DIODE MC2840-T112-1			
D854	6-500-848-01	DIODE MC2840-T112-1			
		< EARTH TERMINAL >			
* EP851	1-537-738-21	TERMINAL, EARTH			
		< JUMPER RESISTOR >			
FB851	1-216-864-11	SHORT CHIP	0		
FB852	1-216-864-11	SHORT CHIP	0		
		< JACK >			
J852	1-794-548-21	CONNECTOR, USB (A) (USB)			
		< JUMPER RESISTOR >			
R873	1-216-864-11	SHORT CHIP	0		
R875	1-216-864-11	SHORT CHIP	0		

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USB MICOM BOARD
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Ref. No.	Part No.	Description			Remark
		< CAPACITOR >			
C1	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C3	1-164-858-11	CERAMIC CHIP	22PF	5%	50V
C4	1-164-858-11	CERAMIC CHIP	22PF	5%	50V
C5	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C7	1-128-995-21	ELECT CHIP	100uF	20%	10V
C8	1-128-995-21	ELECT CHIP	100uF	20%	10V
C9	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C10	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C11	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C12	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C13	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C14	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C15	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C16	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C17	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C18	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C19	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C20	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C21	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C22	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C23	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C24	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C25	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C26	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C27	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C28	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C29	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C30	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C31	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C32	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C33	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C34	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C35	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C36	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C37	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C38	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C39	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C40	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C41	1-128-995-21	ELECT CHIP	100uF	20%	10V
C42	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C43	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C44	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C45	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C46	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C47	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C48	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C49	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V

Ref. No.	Part No.	Description			Remark
C50	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C51	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C52	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C53	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C54	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C55	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C56	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C57	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C58	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C59	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C60	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C61	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C62	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C63	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C64	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C65	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C66	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C67	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C68	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C69	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C70	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C71	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C72	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C73	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C74	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C75	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C76	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C77	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C78	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C79	1-128-995-21	ELECT CHIP	100uF	20%	10V
C80	1-128-995-21	ELECT CHIP	100uF	20%	10V
C81	1-128-995-21	ELECT CHIP	100uF	20%	10V
C82	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C83	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C84	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C85	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C86	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C87	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C88	1-164-858-11	CERAMIC CHIP	22PF	5%	50V
C89	1-164-858-11	CERAMIC CHIP	22PF	5%	50V
C90	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C93	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C96	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C97	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C98	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C99	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C100	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C101	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C102	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C103	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C104	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C105	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C106	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C107	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C108	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C109	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C110	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C111	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C112	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C113	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V

Ref. No.	Part No.	Description			Remark
C114	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C115	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C116	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C117	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C118	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C119	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C120	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C121	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C123	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C124	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C125	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C126	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C127	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C128	1-164-858-11	CERAMIC CHIP	22PF	5%	50V
C129	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
C130	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
C131	1-164-845-11	CERAMIC CHIP	5PF	0.25PF	50V
C132	1-164-845-11	CERAMIC CHIP	5PF	0.25PF	50V
C133	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
C136	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C138	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C139	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C140	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C141	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C142	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C144	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C145	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C146	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C147	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C149	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C150	1-114-214-81	CERAMIC CHIP	470PF	5%	50V
C151	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C158	1-128-995-21	ELECT CHIP	100uF	20%	10V
C159	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C160	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C161	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C162	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C163	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C164	1-164-874-11	CERAMIC CHIP	100PF	5%	50V

< CONNECTOR >

CN2	1-784-857-51	CONNECTOR, FFC (LIF (NON-ZIF)) 5P
CN3	1-784-869-51	CONNECTOR, FFC (LIF (NON-ZIF)) 17P
CN6	1-774-731-21	PIN, CONNECTOR (PC BOARD) 5P
CN7	1-774-730-21	PIN, CONNECTOR (PC BOARD) 3P
CN8	1-821-796-11	CONNECTOR, SATA SMT (7P)

< DIODE >

D1	6-501-817-01	DIODE MA2J1110GLS0
D2	6-501-579-01	DIODE MC2837

< JUMPER RESISTOR/FERRITE BEAD >

FB1	1-216-295-91	SHORT CHIP 0
FB2	1-216-295-91	SHORT CHIP 0
FB3	1-469-324-21	FERRITE, EMI (SMD) (2012)
FB4	1-469-324-21	FERRITE, EMI (SMD) (2012)
FB5	1-216-295-91	SHORT CHIP 0
FB6	1-216-295-91	SHORT CHIP 0
FB7	1-216-295-91	SHORT CHIP 0
FB8	1-216-295-91	SHORT CHIP 0

USB MICOM

Ref. No.	Part No.	Description			Remark
FB9	1-216-295-91	SHORT CHIP	0		
		< IC >			
IC1	(Not supplied)	IC MX29LV160CTTI-70G-E35HD-03			
IC2	6-711-829-01	IC D708E001BRFP266			
IC3	6-711-928-01	IC W9812G6GH-75-ER10			
IC4	6-710-038-01	IC S1R72005F00A300			
IC5	(Not supplied)	IC TPS74801RGWR			
IC6	6-709-584-01	IC MM1663DHBE			
IC7	8-759-669-42	IC SN74LVC138APWR-12			
IC8	6-710-963-01	IC S-1132B25-U5T1G			
IC9	6-712-182-01	IC JM20339-LGCA0C			
IC10	8-759-591-61	IC TC7WHU04FU (TE12R)			
IC11	6-713-125-01	IC DIR9001S1PWRG4			
* IC12	6-709-229-01	IC AK4554VT-8-E2			
IC13	(Not supplied)	IC USB2512-AEZG			
IC14	6-710-624-01	IC TPS2051BDRG4			
		< JUMPER RESISTOR >			
JR4	1-218-990-81	SHORT CHIP	0		
JR7	1-218-990-81	SHORT CHIP	0		
		< RESISTOR >			
R085	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R1	1-218-989-11	RES-CHIP	1M	5%	1/16W
R2	1-218-965-11	RES-CHIP	10K	5%	1/16W
R3	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R4	1-218-990-81	SHORT CHIP	0		
R5	1-218-953-11	RES-CHIP	1K	5%	1/16W
R6	1-218-965-11	RES-CHIP	10K	5%	1/16W
R7	1-218-965-11	RES-CHIP	10K	5%	1/16W
R8	1-218-965-11	RES-CHIP	10K	5%	1/16W
R9	1-218-990-81	SHORT CHIP	0		
R10	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R11	1-218-989-11	RES-CHIP	1M	5%	1/16W
R12	1-218-989-11	RES-CHIP	1M	5%	1/16W
R15	1-218-953-11	RES-CHIP	1K	5%	1/16W
R16	1-218-990-81	SHORT CHIP	0		
R17	1-218-973-11	RES-CHIP	47K	5%	1/16W
R19	1-218-977-11	RES-CHIP	100K	5%	1/16W
R20	1-218-977-11	RES-CHIP	100K	5%	1/16W
R21	1-218-977-11	RES-CHIP	100K	5%	1/16W
R22	1-218-977-11	RES-CHIP	100K	5%	1/16W
R23	1-218-977-11	RES-CHIP	100K	5%	1/16W
R24	1-218-965-11	RES-CHIP	10K	5%	1/16W
R25	1-218-953-11	RES-CHIP	1K	5%	1/16W
R26	1-218-990-81	SHORT CHIP	0		
R27	1-218-990-81	SHORT CHIP	0		
R28	1-218-990-81	SHORT CHIP	0		
R29	1-218-990-81	SHORT CHIP	0		
R30	1-218-990-81	SHORT CHIP	0		
R31	1-218-990-81	SHORT CHIP	0		
R32	1-218-990-81	SHORT CHIP	0		
R33	1-218-990-81	SHORT CHIP	0		
R35	1-218-989-11	RES-CHIP	1M	5%	1/16W
R36	1-218-941-81	RES-CHIP	100	5%	1/16W
R37	1-218-990-81	SHORT CHIP	0		
R38	1-218-990-81	SHORT CHIP	0		
R39	1-218-990-81	SHORT CHIP	0		
R40	1-218-937-11	RES-CHIP	47	5%	1/16W

Ref. No.	Part No.	Description			Remark
R41	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R42	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R43	1-218-941-81	RES-CHIP	100	5%	1/16W
R44	1-218-990-81	SHORT CHIP	0		
R46	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R47	1-218-941-81	RES-CHIP	100	5%	1/16W
R48	1-218-990-81	SHORT CHIP	0		
R49	1-218-990-81	SHORT CHIP	0		
R50	1-218-990-81	SHORT CHIP	0		
R51	1-218-990-81	SHORT CHIP	0		
R53	1-218-941-81	RES-CHIP	100	5%	1/16W
R54	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R55	1-218-990-81	SHORT CHIP	0		
R56	1-218-941-81	RES-CHIP	100	5%	1/16W
R57	1-218-941-81	RES-CHIP	100	5%	1/16W
R58	1-218-941-81	RES-CHIP	100	5%	1/16W
R59	1-218-941-81	RES-CHIP	100	5%	1/16W
R60	1-218-941-81	RES-CHIP	100	5%	1/16W
R61	1-218-941-81	RES-CHIP	100	5%	1/16W
R62	1-218-990-81	SHORT CHIP	0		
R63	1-218-990-81	SHORT CHIP	0		
R64	1-218-941-81	RES-CHIP	100	5%	1/16W
R65	1-218-941-81	RES-CHIP	100	5%	1/16W
R66	1-218-941-81	RES-CHIP	100	5%	1/16W
R67	1-218-990-81	SHORT CHIP	0		
R68	1-218-990-81	SHORT CHIP	0		
R69	1-218-937-11	RES-CHIP	47	5%	1/16W
R71	1-218-990-81	SHORT CHIP	0		
R72	1-218-937-11	RES-CHIP	47	5%	1/16W
R73	1-218-941-81	RES-CHIP	100	5%	1/16W
R74	1-218-990-81	SHORT CHIP	0		
R75	1-218-990-81	SHORT CHIP	0		
R76	1-218-990-81	SHORT CHIP	0		
R77	1-218-933-11	RES-CHIP	22	5%	1/16W
R78	1-218-933-11	RES-CHIP	22	5%	1/16W
R79	1-218-937-11	RES-CHIP	47	5%	1/16W
R80	1-218-941-81	RES-CHIP	100	5%	1/16W
R82	1-218-941-81	RES-CHIP	100	5%	1/16W
R83	1-218-990-81	SHORT CHIP	0		
R86	1-218-953-11	RES-CHIP	1K	5%	1/16W
R88	1-218-941-81	RES-CHIP	100	5%	1/16W
R89	1-218-990-81	SHORT CHIP	0		
R90	1-218-941-81	RES-CHIP	100	5%	1/16W
R93	1-218-990-81	SHORT CHIP	0		
R94	1-218-990-81	SHORT CHIP	0		
R95	1-218-990-81	SHORT CHIP	0		
R96	1-218-990-81	SHORT CHIP	0		
R98	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R99	1-218-990-81	SHORT CHIP	0		
R100	1-218-990-81	SHORT CHIP	0		
R102	1-218-990-81	SHORT CHIP	0		
R103	1-218-990-81	SHORT CHIP	0		
R104	1-218-990-81	SHORT CHIP	0		
R105	1-218-990-81	SHORT CHIP	0		
R107	1-218-941-81	RES-CHIP	100	5%	1/16W
R108	1-218-941-81	RES-CHIP	100	5%	1/16W
R109	1-218-941-81	RES-CHIP	100	5%	1/16W
R110	1-218-941-81	RES-CHIP	100	5%	1/16W
R116	1-218-941-81	RES-CHIP	100	5%	1/16W
R117	1-218-990-81	SHORT CHIP	0		

Note: IC1, IC5 and IC13 on the USB MICOM board cannot exchange with single. When IC1, IC5 and IC13 on the USB MICOM board are damaged, exchange the entire mounted board.

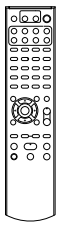
Ref. No.	Part No.	Description			Remark
R118	1-218-990-81	SHORT CHIP	0		
R119	1-218-990-81	SHORT CHIP	0		
R120	1-218-937-11	RES-CHIP	47	5%	1/16W
R121	1-218-937-11	RES-CHIP	47	5%	1/16W
R122	1-218-965-11	RES-CHIP	10K	5%	1/16W
R123	1-218-990-81	SHORT CHIP	0		
R124	1-218-965-11	RES-CHIP	10K	5%	1/16W
R125	1-218-965-11	RES-CHIP	10K	5%	1/16W
R126	1-218-965-11	RES-CHIP	10K	5%	1/16W
R127	1-218-965-11	RES-CHIP	10K	5%	1/16W
R128	1-218-965-11	RES-CHIP	10K	5%	1/16W
R129	1-218-965-11	RES-CHIP	10K	5%	1/16W
R130	1-218-965-11	RES-CHIP	10K	5%	1/16W
R131	1-218-965-11	RES-CHIP	10K	5%	1/16W
R132	1-218-965-11	RES-CHIP	10K	5%	1/16W
R133	1-218-965-11	RES-CHIP	10K	5%	1/16W
R135	1-218-965-11	RES-CHIP	10K	5%	1/16W
R136	1-218-965-11	RES-CHIP	10K	5%	1/16W
R137	1-218-941-81	RES-CHIP	100	5%	1/16W
R138	1-218-941-81	RES-CHIP	100	5%	1/16W
R139	1-218-941-81	RES-CHIP	100	5%	1/16W
R140	1-218-965-11	RES-CHIP	10K	5%	1/16W
R142	1-218-953-11	RES-CHIP	1K	5%	1/16W
R143	1-218-990-81	SHORT CHIP	0		
R144	1-218-965-11	RES-CHIP	10K	5%	1/16W
R145	1-218-965-11	RES-CHIP	10K	5%	1/16W
R150	1-218-965-11	RES-CHIP	10K	5%	1/16W
R151	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R152	1-218-941-81	RES-CHIP	100	5%	1/16W
R153	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R154	1-218-941-81	RES-CHIP	100	5%	1/16W
R155	1-218-977-11	RES-CHIP	100K	5%	1/16W
R157	1-218-990-81	SHORT CHIP	0		
		< COMPOSITION CIRCUIT BLOCK >			
RB1	1-234-944-21	RES, NETWORK 47 (1005X4)			
RB2	1-234-944-21	RES, NETWORK 47 (1005X4)			
RB3	1-234-944-21	RES, NETWORK 47 (1005X4)			
RB4	1-234-944-21	RES, NETWORK 47 (1005X4)			
RB5	1-234-944-21	RES, NETWORK 47 (1005X4)			
RB6	1-234-944-21	RES, NETWORK 47 (1005X4)			
RB11	1-234-944-21	RES, NETWORK 47 (1005X4)			
RB12	1-234-944-21	RES, NETWORK 47 (1005X4)			
RB13	1-234-944-21	RES, NETWORK 47 (1005X4)			
		< VIBRATOR >			
X1	1-767-654-21	VIBRATOR, CRYSTAL (12MHz)			
X2	1-767-286-11	VIBRATOR, CRYSTAL (22.5792MHz)			
X4	1-760-613-21	VIBRATOR, CRYSTAL (24MHz)			
X5	1-767-654-21	VIBRATOR, CRYSTAL (12MHz)			
**********					
		MISCELLANEOUS			
		**********			
56	1-831-769-21	CABLE, FLEXIBLE FLAT (9 CORE)			
68	1-831-763-21	CABLE, FLEXIBLE FLAT (7 CORE)			
102	1-831-755-21	CABLE, FLEXIBLE FLAT (5 CORE)			
103	1-831-780-21	CABLE, FLEXIBLE FLAT (11 CORE)			
104	1-832-533-21	CABLE, FLEXIBLE FLAT (5 CORE)			
106	1-835-450-21	CABLE, FLEXIBLE FLAT (19 CORE)			
107	1-832-795-21	CABLE, FLEXIBLE FLAT (5 CORE)			

Ref. No.	Part No.	Description	Remark
151	1-400-932-11	FILTER, CLAMP	
152	1-965-828-11	HARNESS	
155	A-1554-741-A	HDD ASSY (GENERAL) (AEP, UK, RU, AUS)	
155	A-1554-742-A	HDD ASSY (LATIN) (E51, MX)	
156	1-835-449-21	CABLE, FLEXIBLE FLAT (17 CORE)	
157	1-832-537-21	CABLE, FLEXIBLE FLAT (5 CORE)	
201	1-832-808-21	CABLE, FLEXIBLE FLAT (7 CORE)	
204	1-965-872-11	HARNESS	
206	1-831-930-21	CABLE, FLEXIBLE FLAT (11 CORE)	
209	1-832-569-21	CABLE, FLEXIBLE FLAT (11 CORE)	
210	1-832-820-21	CABLE, FLEXIBLE FLAT (9 CORE)	(RU, E51, MX, AUS)
210	1-832-830-21	CABLE, FLEXIBLE FLAT (11 CORE) (AEP, UK)	
⚠ 212	1-769-744-81	CORD, POWER (UK)	
⚠ 212	1-834-966-21	CORD, POWER (AEP, RU, E51)	
⚠ 212	1-834-967-21	CORD, POWER (AUS)	
⚠ 212	1-835-080-11	CORD, POWER (MX)	
213	1-693-738-11	TUNER (FM/AM) (AEP, UK)	
213	1-693-765-11	TUNER (FM/AM) (E51, MX, AUS)	
213	1-693-767-11	TUNER (FM/AM) (RU)	
214	1-500-868-11	CORE, FERRITE	
216	1-400-932-11	FILTER, CLAMP	
251	A-1242-967-A	LOADING (BK) ASSY	
⚠ 301	8-820-272-02	OPTICAL PICK-UP BLOCK KSM215DHAP/C2NP	
302	1-832-404-21	CABLE, FLEXIBLE FLAT (16 CORE)	
351	A-1508-681-A	SYSTEM (L) ASSY (Lch) (AEP, UK, RU, AUS)	(SS-CE35HD)
351	A-1508-706-A	SYSTEM (L) ASSY (Lch) (E51, MX) (SS-CE35HD)	
351	A-1508-682-A	SYSTEM (R) ASSY (Rch) (AEP, UK, RU, AUS)	(SS-CE35HD)
351	A-1508-707-A	SYSTEM (R) ASSY (Rch) (E51, MX) (SS-CE35HD)	
DAB601	1-480-340-41	MODULE (DAB TUNER) (UK)	
J601	1-820-441-11	CONNECTOR, COAXIAL (F TYPE) (DAB 75Ω)	(UK)
M1	1-787-607-11	D.C. FAN (50 SQUARE)	

Ref. No.	Part No.	Description	Remark
		ACCESSORIES	
		**********	
⚠	1-569-008-22	ADAPTOR, CONVERSION 2P (E51)	
⚠	1-770-019-61	ADAPTOR, CONVERSION PLUG (UK)	
	3-292-247-11	MANUAL, INSTRUCTION (ENGLISH)	(AEP, UK, E51, AUS, AR)
	3-292-247-21	MANUAL, INSTRUCTION (FRENCH) (AEP)	
	3-292-247-31	MANUAL, INSTRUCTION (SPANISH)	(AEP, E51, MX)
	3-292-247-41	MANUAL, INSTRUCTION (GERMAN) (AEP)	
	3-292-247-51	MANUAL, INSTRUCTION (DUTCH) (AEP)	
	3-292-247-61	MANUAL, INSTRUCTION (ITALIAN) (AEP)	
	3-292-247-71	MANUAL, INSTRUCTION (SWEDISH) (AEP)	
	3-292-247-81	MANUAL, INSTRUCTION (POLISH) (AEP)	
	3-292-247-92	MANUAL, INSTRUCTION (RUSSIAN) (RU)	
	3-292-248-12	MANUAL, INSTRUCTION (UKRAINIAN) (RU)	
	3-876-236-11	MANUAL, INSTRUCTION (JAPANESE, ENGLISH, FRENCH, GERMAN, SPANISH, DUTCH, SWEDISH, ITALIAN, PORTUGUESE, GREEK, POLISH, RUSSIAN, UKRAINIAN, CZECH, TURKISH, HUNGARIAN, SLOVAKIAN, DANISH, FINNISH) (for iPod Dock Adapters) (AEP, UK)	
	3-876-237-12	MANUAL, INSTRUCTION (ENGLISH)	(for TDM-iP10 (M)) (AEP, UK)
	3-876-237-22	MANUAL, INSTRUCTION (FRENCH)	(for TDM-iP10 (M)) (AEP)
	3-876-237-32	MANUAL, INSTRUCTION (SPANISH)	(for TDM-iP10 (M)) (AEP)
	3-876-237-42	MANUAL, INSTRUCTION (GERMAN)	(for TDM-iP10 (M)) (AEP)
	3-876-237-52	MANUAL, INSTRUCTION (DUTCH)	(for TDM-iP10 (M)) (AEP)
	3-876-237-62	MANUAL, INSTRUCTION (ITALIAN)	(for TDM-iP10 (M)) (AEP)
	3-876-237-72	MANUAL, INSTRUCTION (SWEDISH)	(for TDM-iP10 (M)) (AEP)
	3-876-237-82	MANUAL, INSTRUCTION (POLISH)	(for TDM-iP10 (M)) (AEP)
501	1-480-774-11	COMMANDER, STANDARD (RM-SHD35)	(Remote control)
502	1-754-102-41	ANTENNA, LOOP (LW.MW) (AM loop antenna)	
503	1-754-243-21	ANTENNA (FM lead antenna or DAB lead antenna)	
504	1-835-089-11	CORD WITH CONNECTOR (SPEAKER)	(Speaker cords: 2 pieces, 1 set)
505	2-159-896-01	CUSHION (FOOT) (Speaker pads: 8 pieces, 1 set)	(E51, MX)
506	A-1542-806-A	OVERALL ASSY (TDM-iP10 (M)) (including foot)	(AEP, UK)
507	3-277-581-01	FOOT (for TDM-iP10 (M)) (AEP, UK)	
508	A-1545-663-A	PACK ASSY, ADAPTER (iPod Dock Adapters: 5 pieces, 1 set) (for TDM-iP10 (M)) (AEP, UK)	

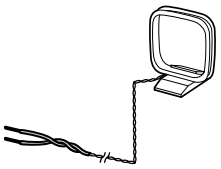
Ref. No.	Part No.	Description	Remark

501



REMOTE CONTROL
× 1

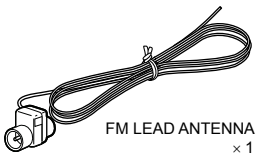
502



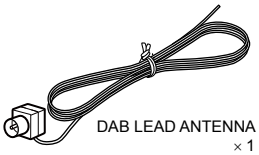
AM LOOP ANTENNA
× 1

503

One of the following two antennas is supplied.

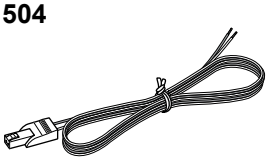


FM LEAD ANTENNA
× 1



DAB LEAD ANTENNA
× 1

504



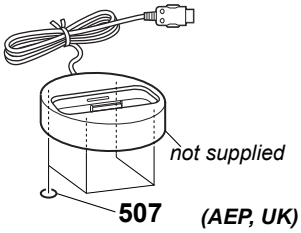
SPEAKER CORDS
× 2

505

SPEAKER PADS
× 8

(E51, MX)

506



DEGITAL MEDIA PORT ADAPTOR
× 1

508

The adapter number ⑭, ⑬, ⑪, ⑩ or ⑨ is shown on bottom-rear of each Dock Adapter.
When you use other iPod models, a compatible Dock Adapter from Apple Inc. will need to be purchased separately.

⑭ For iPod touch (8 GB/16 GB)

⑬ For iPod nano 3rd generation (video) (4 GB/8 GB)

⑪ For iPod nano 2nd generation (aluminum) (2 GB/4 GB/8 GB)

⑩ For iPod classic (160 GB) and iPod 5th generation (video) (60 GB/80 GB)

⑨ For iPod classic (80 GB) and iPod 5th generation (video) (30 GB)

(AEP, UK)

IPOD DOCK ADAPTORS (1 SET)
× 1

Note: *It doesn't separately supply Adapter respectively.*

MEMO

REVISION HISTORY

Checking the version allows you to jump to the revised page.
Also, clicking the version at the top of the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2008.05	New